

March 30, 2005

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Sacramento, CA 95827-2508
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Mr. Jim Tischler
Regional Water Quality Control Board
North Coast Region
5550 Skylane Blvd., Suite A
Santa Rosa, CA 95403

**RE: Quarterly Groundwater Monitoring
Ozone Remediation System Status Report, First Quarter 2005
Former Unocal Station No. 2672
1075 Santa Rosa Avenue, Santa Rosa, California**

Dear Mr. Tischler:

ENSR Corporation (ENSR) has been authorized by Union Oil Company of California (Unocal) to prepare this report summarizing quarterly groundwater monitoring and ozone remediation system status at the referenced site located at 1075 Santa Rosa Avenue, Santa Rosa, California (**Figure 1**). This report presents the results of quarterly groundwater monitoring and ozone remediation system status through the first quarter 2005. The work was performed in accordance with the field methods and procedures included in **Attachment A**. The locations of former and current site features are illustrated on **Figure 2**.

Groundwater Level Measurements

Depth to groundwater measurements were recorded in monitoring wells MW-1 through MW-3, MW-5 through MW-11, MW-12A, MW-12B, MW-13A, MW-13B, MW-14A, MW-14B, and MW-15 on February 17, 2005 (**Table 1**). As a sheen was observed in well MW-4, the well was not gauged or sampled during this monitoring event. Monitoring wells MW-12A, MW-13A, and MW-14A are screened from 50 to 55 feet below ground surface (bgs) and monitor the intermediate zone. Monitoring wells MW-12B, MW-13B, and MW-14B are screened from 80 to 85 feet bgs and monitor the deep zone. Groundwater measurements collected were used to construct three groundwater elevation contours for the site. The shallow, intermediate, and deep zone is presented in **Figure 3** through **Figure 5**, respectively.

On February 17, 2005, the groundwater flow direction in the shallow zone was to the southeast in the northern portion of the site and to the northeast in the southern portion of the site with a highly variable gradient (**Figure 3**). The groundwater flow direction in the intermediate zone was toward the southwest with a hydraulic gradient of approximately 0.0021 feet per foot (ft/ft) (**Figure 4**). The groundwater flow direction for the deep zone was toward the east with a hydraulic gradient of approximately 0.0016 ft/ft (**Figure 5**). Copies of the groundwater sampling information sheets are included in **Attachment B** and a summary of groundwater elevations measured to date is presented in **Table 1**.



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Groundwater Sampling and Analytical Results

Groundwater samples were collected on February 17, 2005, from wells MW-1 through MW-3, MW-5 through MW-11, MW-12A, MW-12B, MW-13A, MW-13B, MW-14A, MW-14B, and MW-15. The groundwater samples were submitted to California Laboratory Services (CLS) in Rancho Cordova, California (a state-certified laboratory) for analyses of benzene, toluene, ethylbenzene and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B. Total petroleum hydrocarbons as gasoline (TPHg) analysis was performed using EPA Method 8015 Modified. Analyses for fuel oxygenate compounds methyl tertiary butyl ether (MTBE), tertiary-amyl methyl ether (TAME), tert butanol (TBA), di-isopropyl ether (DIPE), and ethyl tertiary butyl ether (ETBE) was performed using EPA Method 8260B. Analysis for lead scavenger, 1,2-dichloroethane (1,2-DCA) was also performed using EPA Method 8260B.

Cumulative groundwater sampling analytical results are summarized in **Table 1** through **Table 5**. Concentrations of TPHg, benzene and MTBE in groundwater sampled on February 17, 2005 are presented in **Figure 6**. Copies of the groundwater sampling information sheets are included in **Attachment B**. Laboratory analytical results with chain-of-custody documentation are included in **Attachment C**.

Ozone Microsparge System Description

The ozone system consists of groundwater treatment via a C-Sparge system. The C-Sparge system includes an ozone generator, air compressor, and a programmable timer/controller. The C-Sparge system utilizes ozone microsparging: a process where ozone is entrained in air and introduced into groundwater. The ozone is injected at low flow rates of 2 to 6 cubic feet per minute (cfm) through specially designed sparge points to create "micro-bubbles." As these micro-bubbles rise within the column of water, dissolved volatile organic compounds (VOCs) including petroleum hydrocarbons are oxidized. The system cycles ozone/air injection between nine micro-sparge points (SP-1 through SP-9). Ozone sparge points introduce ozone into the areas of highest dissolved petroleum hydrocarbon and VOC concentrations of the Unocal site. Each sparge point has a dedicated polyethylene line installed below ground to connect the C-Sparge system to the sparge points.

Ozone Microsparge System Operation

The schedule was initially set to cycle through each sparge point eighteen times per day, for nine minutes per point, per cycle. There is an eight-minute rest period between cycles. The programmable timer/controller is varied during the quarter to provide more treatment to selected areas.

Ozone Microsparge System Status

System operation began on November 18, 2003. System effectiveness is monitored by assessing dissolved oxygen (D.O.) concentrations and quarterly analysis of groundwater



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samples collected from monitoring wells MW-1 through MW-4, and MW-8. On June 4, 2004, the system was shut down as a result of the presence of VOC vapors escaping from various C-Sparge points, monitoring wells, and PVC conduits that house the C-Sparge lines. A work plan to install a small Soil Vapor Extraction (SVE) system to abate the escaping VOC vapors was prepared by ENSR and approved by the Regional Water Quality Control Board, North Coast Region in a letter dated October 15, 2004. The extensive permitting required by the City of Santa Rosa for the installation of the SVE system is anticipated to be completed shortly. Upon completion of permitting activities, ENSR will proceed with the installation of the SVE system.

Conclusions/Recommendations

Concentrations of TPHg, benzene and MTBE were detected in five wells. TPHg concentrations ranged from 22,000 micrograms per liter ($\mu\text{g/L}$) in well MW-2 to 160 $\mu\text{g/L}$ in well MW-1. Benzene concentrations ranged from 1,800 $\mu\text{g/L}$ in well MW-2 to 14 $\mu\text{g/L}$ in well MW-1. MTBE was detected in between 100 $\mu\text{g/L}$ in well MW-2 to 1.4 $\mu\text{g/L}$ in well MW-1. Hydrocarbon constituents were not detected in ten wells (MW-7, MW-9 through MW-11, MW-12A, MW-12B, MW-13A, MW-13B, MW-14B, and MW-15) during the first quarter 2005. As a result of the concentrations detected, it is recommended that the system ozone operation be continued.

Future Work

ENSR anticipates the installation of the agency approved SVE system during the second quarter 2005, and at that time the existing C-Sparge system will be re-started. After re-starting the C-Sparge system, ENSR will continue operation and maintenance. The second quarter 2005 groundwater monitoring and sampling is scheduled for May 2005.

Remarks/Signatures

The interpretations in this report represent our professional opinions and are based, in part, on the information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.



Mr. Jim Tischler
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If you have any questions regarding this project, please contact John Warren at (916) 362-7100.

Sincerely,
ENSR Corporation

Yan Wang
Project Engineer

John M. Warren, R.C.E. No. 34168
Senior Program Manager

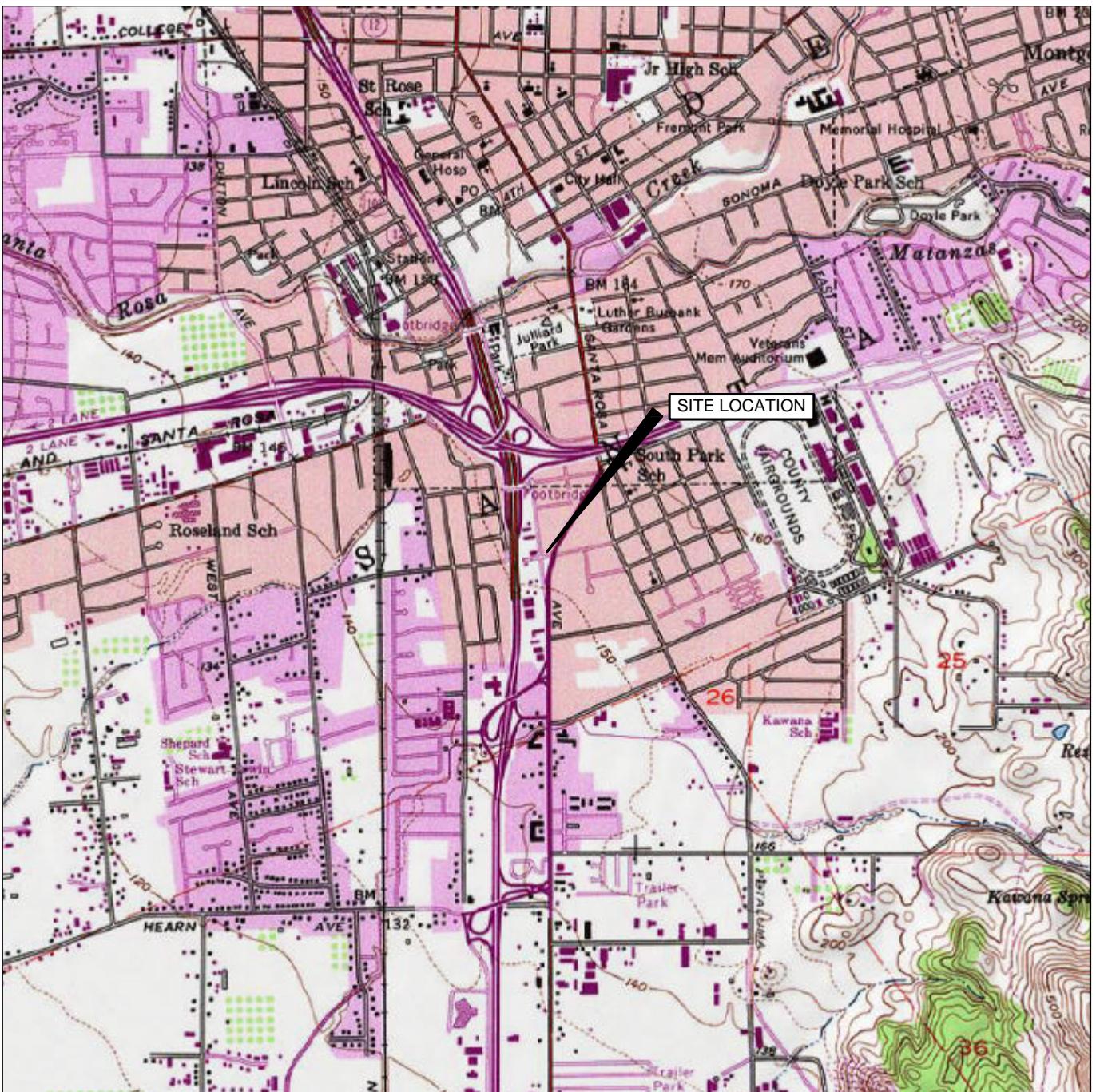
KH/dk

Ref. 06940-268-100

Attachments

cc: Mr. John Frary, Union Oil Company of California
Mr. Vincent Spiers
Santa Rosa Fire Department

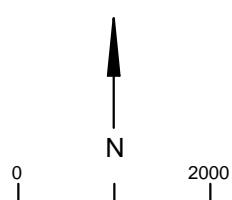




Map created with TOPO - 2003 National Geographic



MAP LOCATION



Approximate Scale
in Feet



10411 Old Placerville Road Ste 210
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SITE LOCATION MAP

Former UNOCAL Station 2672
1075 Santa Rosa Avenue
Santa Rosa, California

DRAWN BY
G BORCHARDT

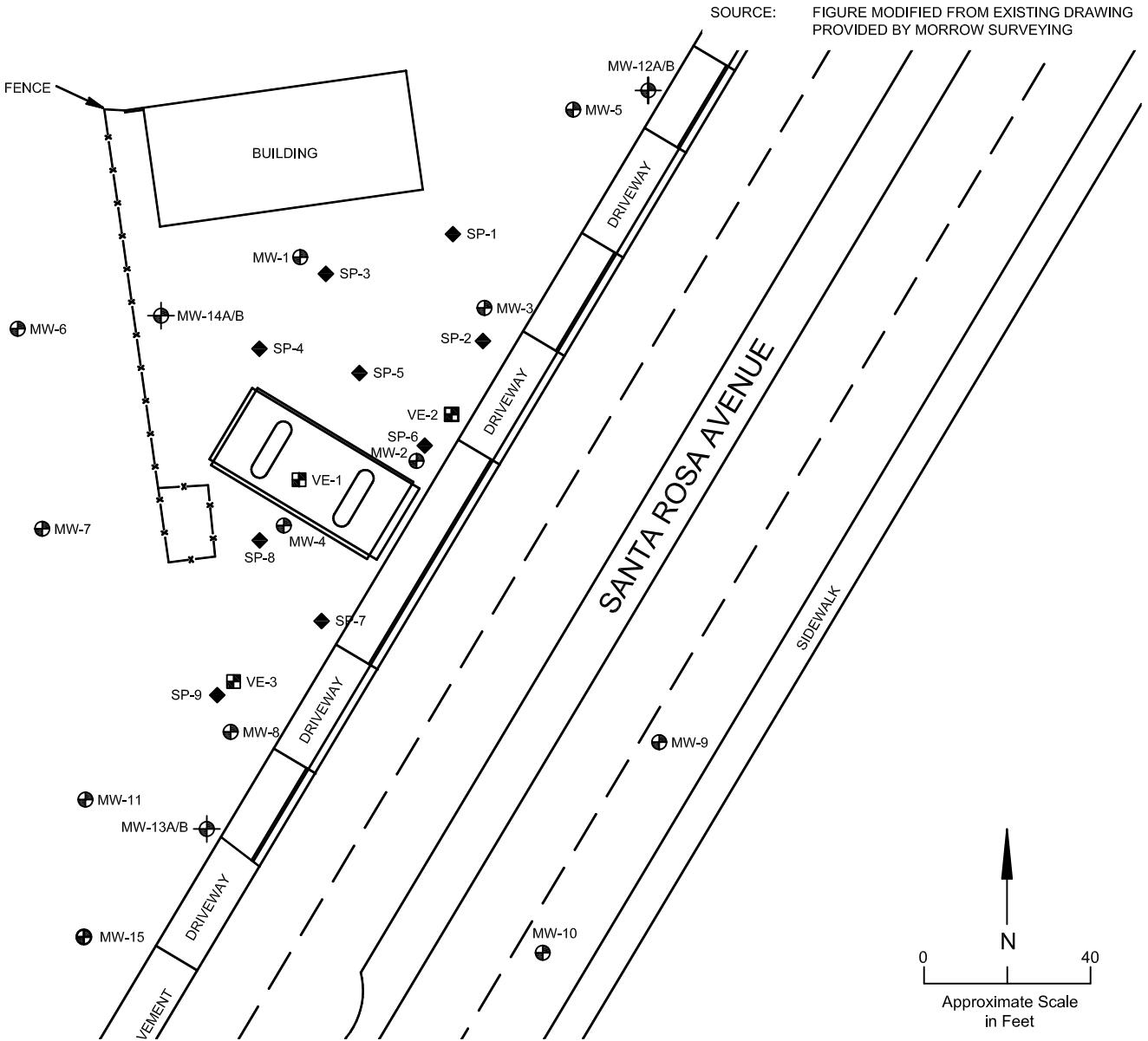
DATE
4/7/2004

PROJECT NUMBER
06940-268

FIGURE

1

FRANCISCO'S AUTO SERVICE



LEGEND

- GROUNDWATER MONITORING WELL
- VAPOR EXTRACTION WELL
- OZONE SPARGE POINT
- NESTED MONITORING WELL



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SITE MAP

Former UNOCAL Station 2672
1075 Santa Rosa Avenue
Santa Rosa, California

Quarterly Monitoring Report
1st Quarter 2005

DRAWN BY	DATE	PROJECT NUMBER
E. Cowan	3/14/2005	06940-268

FIGURE

2

FRANCISCO'S AUTO SERVICE

SOURCE: FIGURE MODIFIED FROM EXISTING DRAWING PROVIDED BY MORROW SURVEYING

BUILDING

147.98 MW-1

148.27 MW-6

147.76 MW-7

MW-11
148.38

MW-15
148.13

MW-13/A/B

DRIVEWAY

VENEMENT



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GROUNDWATER ELEVATION CONTOUR MAP SHALLOW ZONE

Former UNOCAL Station 2672
1075 Santa Rosa Avenue
Santa Rosa, California

Quarterly Monitoring Report
1st Quarter 2005
February 17, 2005

DRAWN BY

DATE

PROJECT NUMBER

E. Cowan

3/14/2005

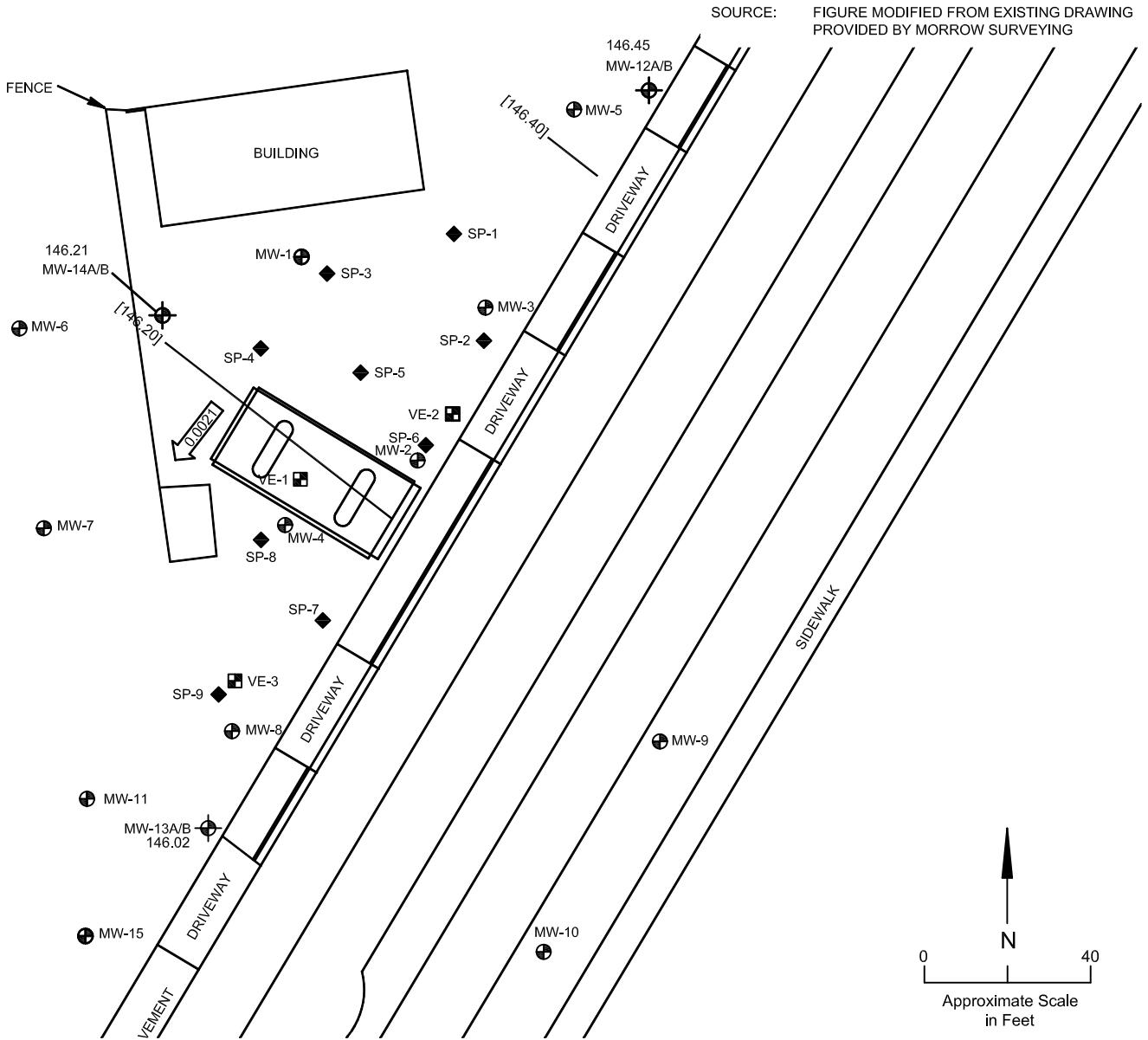
06940-268

0
40
Approximate Scale
in Feet

N

FIGURE
3

FRANCISCO'S AUTO SERVICE



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GROUNDWATER ELEVATION CONTOUR MAP INTERMEDIATE ZONE

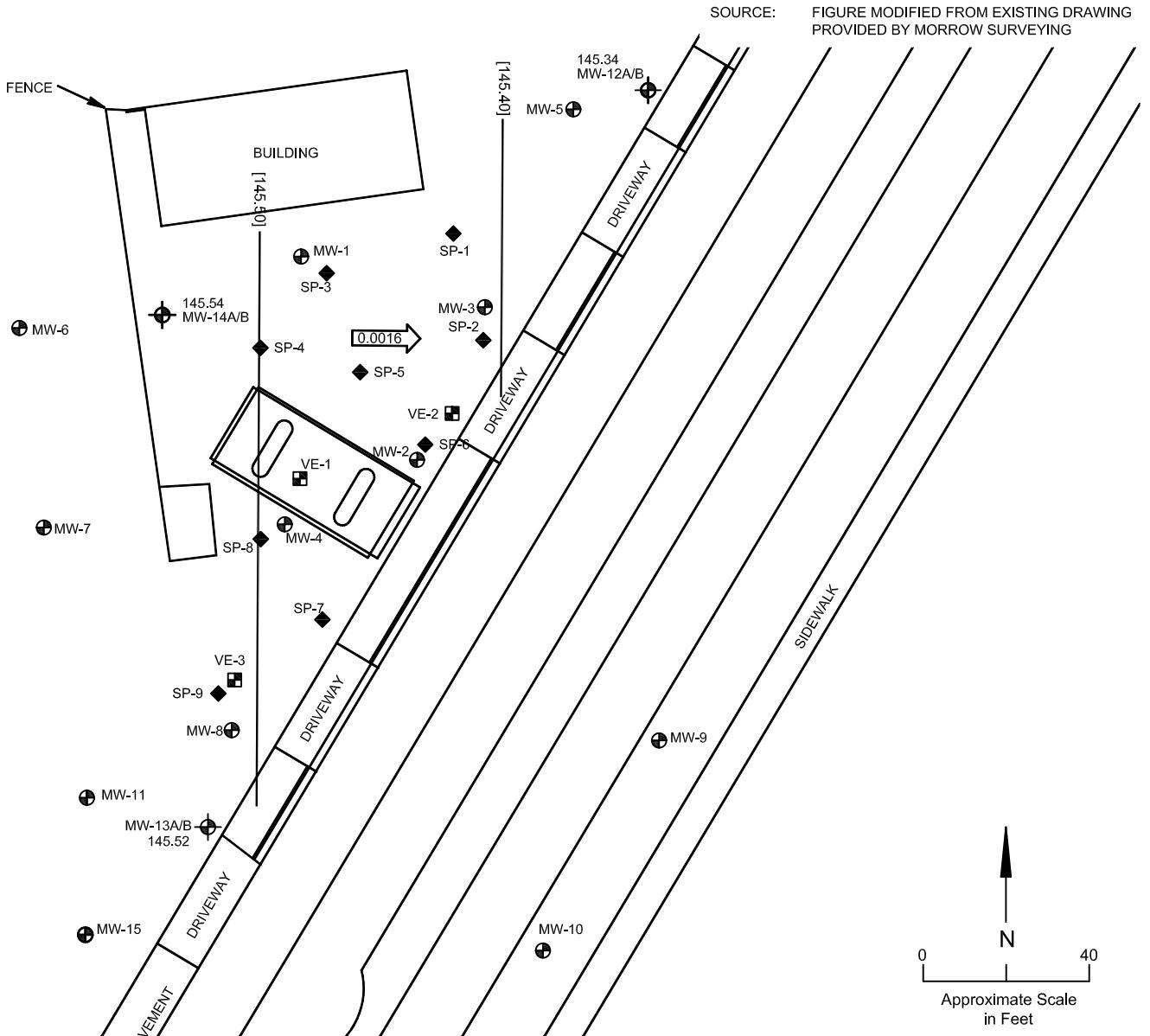
Former UNOCAL Station 2672
1075 Santa Rosa Avenue
Santa Rosa, California
Quarterly Monitoring Report
1st Quarter 2005
February 17, 2005

DRAWN BY	DATE	PROJECT NUMBER
E. Cowan	3/14/2005	06940-268

FIGURE

4

FRANCISCO'S AUTO SERVICE



LEGEND

- GROUNDWATER MONITORING WELL
 - VAPOR EXTRACTION WELL
 - ◆ OZONE SPARGE POINT
 - NESTED MONITORING WELL
- 145.54 GROUNDWATER ELEVATION IN FEET MEAN SEA LEVEL
[145.40] GROUNDWATER ELEVATION CONTOUR
0.0016 APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT IN Ft/Ft



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GROUNDWATER ELEVATION CONTOUR MAP
DEEP ZONE

Former UNOCAL Station 2672
1075 Santa Rosa Avenue
Santa Rosa, California

Quarterly Monitoring Report
1st Quarter 2005
February 17, 2005

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FIGURE

5

FRANCISCO'S AUTO SERVICE

 MW-7

VE-3

SP-9
MW-8
7,000
410
<5.0

MW-11

<50
<0.50
<0.50

MW-13A

<50
<0.50
<0.50

MW-13B

<50
<0.50
<0.50

MW-15

<50
<0.50
<0.50

DRIVEWAY

MOVEMENT

SOURCE

FIGURE MODIFIED FROM EXISTING DRAWING
PROVIDED BY MORROW SURVEYING

MONROE TIRE

LEGEND

- GROUNDWATER MONITORING WELL
 - VAPOR EXTRACTION WELL
 - ◆ OZONE SPARGE POINT
 - NESTED MONITORING WELL

<50	TPHg
0.86	BENZENE
<0.5	MtBE

NS NOT SAMPLED (SHEEN OBSERVED)

ALL CONCENTRATIONS IN MICROGRAMS PER LITER



CONCENTRATION MAP

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Former UNOCAL Station 2672
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Quarterly Monitoring Report
1st Quarter 2005
February 17, 2005

DRAWN BY

DATE

PROJECT NUMBER

FIGURE

6

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product					NITRATES		
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)
MW-1	04/20/89	--	--	--	4,000	48	27	22	64	--	--
	08/17/89	--	--	--	2,500	200	83	ND	56	--	--
	11/15/89	--	--	--	2,000	220	60	30	57	--	--
	03/26/90	--	--	--	5,900	270	150	180	240	--	--
	06/06/90	--	--	--	7,600	290	250	310	350	--	--
	09/27/90	--	--	--	ND	0.32	ND	ND	ND	--	--
	01/16/91	--	--	--	320	50	2.7	0.68	2.1	--	--
	04/30/91	--	--	--	700	17	2.1	ND	4.8	--	--
	07/25/91	--	--	--	2,700	360	110	100	130	--	--
	10/25/91	--	--	--	8,400	850	410	160	1,100	--	--
	01/30/92	--	--	--	3,600	630	270	170	170	--	--
	04/30/92	--	--	--	1,600	88	19	38	45	--	--
	07/22/92	--	--	--	2,700	260	95	100	120	--	--
	10/14/92	--	--	--	3,700	740	300	160	220	--	--
	01/13/93	--	--	--	380	1.4	3.7	1.0	1.4	--	--
154.80	04/12/93	8.91	145.89	0.00	1,400	91	16	55	37	--	--
	07/10/93	12.07	142.73	0.00	ND	ND	ND	ND	ND	--	--
154.51	10/12/93	15.30	139.21	0.00	12,000	400	680	590	1,000	--	--
	01/10/94	12.90	141.61	0.00	210	0.81	0.58	0.92	2.6	--	--
	04/20/94	11.09	143.42	0.00	380	3.7	2.6	1.5	1.3	--	--
	07/14/94	13.76	140.75	0.00	3,700	460	160	120	160	--	--
	10/18/94	16.46	138.05	0.00	8,000	940	410	270	380	--	--
	01/16/95	6.55	147.96	0.00	2,500	290	62	140	110	--	--
	04/13/95	6.73	147.78	0.00	4,700	150	45	170	140	--	--
	07/20/95	11.25	143.26	0.00	3,600	320	140	210	240	--	--
	10/17/95	14.62	139.89	0.00	14,000	770	320	270	530	-- ¹	--
	01/18/96	10.67	143.84	0.00	2,300	82	34	120	98	-- ²	--
	04/17/96	8.06	146.45	0.00	2,800	53	24	120	74	-- ²	--
	07/18/96	11.31	143.20	0.00	2,000	38	18	61	53	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-1	10/18/96	14.32	140.19	0.00	3,500	570	140	150	160	--	--	
(cont)	01/23/97	9.02	145.49	0.00	92,000	6,800	17,000	1,700	15,000	-- ³	--	
	04/24/97	9.71	144.80	0.00	2,600	67	15	130	66	--	--	
	07/24/97	13.38	141.13	0.00	2,800	190	110	130	130	--	--	
	10/27-28/97	14.51	140.00	0.00	2,300	56	44	160	120	--	--	
	01/21/98	6.73	147.78	0.00	5,300	48	32	280	130	94	--	
	04/15/98	7.21	147.30	0.00	320	6.3	2.0	15	9.0	56/45 ⁶	--	
	07/15/98	10.05	144.46	0.00	1,000	65	ND ⁵	91	45	5ND/13 ⁶	--	
	10/15/98	13.36	141.15	0.00	3,010	163	91.2	150	137	29.8/14.8 ⁶	--	
	01/27/99	9.62	144.89	0.00	2,200	92	13	94	35	140/8.5 ⁶	--	
	04/22/99	7.56	146.95	0.00	1,300	43	8.9	86	37	87/4.9 ⁶	--	
	07/22/99	12.17	142.34	0.00	2,800 ¹⁰	170	72	120	92	120/10 ¹¹	--	
	10/20/99	12.95	141.56	0.00	330 ¹²	2.5	1.1	11	5.5	15	--	
	01/05/00	13.28	141.23	0.00	ND	ND	ND	ND	ND	ND	--	
	04/06/00	8.77	145.74	0.00	1,900 ¹⁴	90	13	110	36	130	--	
	07/21/00	11.81	142.70	0.00	1,770 ¹²	174	50.2	99.5	70.4	54.9	--	
	10/30/00	13.81	140.70	0.00	ND	ND	ND	ND	ND	71.8	--	
	01/24/01	12.12	142.39	0.00	3,840 ¹⁵	362	129	180	178	ND ⁵	--	
	04/25/01	9.70	144.81	0.00	1,360 ¹⁶	49.7	6.02	38.4	12.8	11.5	--	
	07/25/01	13.21	141.30	0.00	3,000	220	99	130	130	27	--	
	10/24/01	15.63	138.88	0.00	4,600	690	210	300	290	800	--	
154.51	01/23/02 ²⁰	8.55	145.96	0.00	--	--	--	--	--	--	--	
	01/26/02	8.25	146.26	0.00	860	19	<5.0	34	9.5	80	--	
	04/24/02	9.73	144.78	0.00	1,200	1.9	2.5	22	5.7	28	--	
	07/24/02	12.53	141.98	0.00	150	<0.50	0.90	5.7	<0.50	190	--	
	10/18/02	15.05	139.46	0.00	2,300	7.8	7.9	62	14	90	--	
	02/03-04/03	8.40	146.11	0.00	310	0.91	0.80	<0.50	0.94	86	--	
	04/24/03	8.92	145.59	0.00	120 ²⁴	1.2	<0.50	<0.50	<0.50	52/70 ⁶	--	
	07/30/03	11.62	142.89	0.00	<50	<0.50	<0.50	<0.50	<0.50	80/86 ⁶	--	

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				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)
MW-1	10/16/03	14.02	140.49	0.00	<50	<0.50	<0.50	<0.50	<0.50	31/21 ⁶
(cont)	01/07/04	8.12	146.39	0.00	1,300	200	45	77	49	4.26
157.01	05/11/04	10.08	146.93	0.00	500	85	9.9	36	18	1.2
	08/05/04	13.00	144.01	0.00	3,900 ²⁵	340	170	220	240	4.7
	11/03/04	13.59	143.42	0.00	6,500 ²⁵	800	330	480	500	5.5
	02/17/05	9.03	147.98	0.00	160²⁶	14	1.1	8.6	1.9	1.4⁶
MW-2	04/20/89	--	--	--	68,000	10,000	9,100	1,900	6,600	--
	08/17/89	--	--	--	41,000	7,900	800	680	3,700	--
	11/15/89	--	--	--	4,700	1,100	1,800	530	2,100	--
	03/26/90	--	--	--	--	--	--	--	--	--
	06/06/90	--	--	--	120,000	11,000	20,000	3,800	22,000	--
	09/27/90	--	--	--	--	--	--	--	--	--
	01/16/91	--	--	--	--	--	--	--	--	--
	04/30/91	--	--	--	--	--	--	--	--	--
	07/25/91	--	--	--	--	--	--	--	--	--
	10/25/91	--	--	--	--	--	--	--	--	--
	01/30/92	--	--	--	69,000	11,000	14,000	3,000	14,000	--
	04/30/92	--	--	--	63,000	12,000	10,000	2,600	12,000	--
	07/22/92	--	--	--	76,000	12,000	11,000	2,700	12,000	--
	10/14/92	--	--	--	--	--	--	--	--	--
	01/13/93	--	--	--	--	--	--	--	--	--
153.96	04/12/93	9.13	144.84**	0.01	--	--	--	--	--	--
	07/10/93	12.18	141.78	Sheen	53,000	5,700	12,000	2,500	11,000	--
153.65	10/12/93	15.26	138.41**	0.02	--	--	--	--	--	--
	01/10/94	12.61	141.09**	0.07	--	--	--	--	--	--
	04/20/94	11.02	142.64**	0.01	--	--	--	--	--	--
	07/14/94	13.31	140.37**	0.04	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
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WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product							NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)	
MW-2	10/18/94	15.95	137.70	0.00	90,000	12,000	8,100	2,600	7,900	--	--	
(cont)	01/16/95	6.85	146.82**	0.02	--	--	--	--	--	--	--	
	04/13/95	6.79	146.86	Sheen	80,000	11,000	13,000	2,500	11,000	--	--	
	07/20/95	10.88	142.77	Sheen	72,000	13,000	12,000	2,800	11,000	--	--	
	10/17/95	14.08	139.57	<0.01/Sheen	200,000	11,000	9,100	2,100	11,000	-- ¹	--	
	01/18/96	10.86	142.79	Sheen	540,000	12,000	17,000	8,800	43,000	-- ²	--	
	04/17/96	8.09	145.56	<0.01/Sheen	64,000	10,000	8,900	2,300	8,700	-- ²	--	
	07/18/96	11.00	142.65	0.00	68,000	5,400	4,900	2,000	6,000	-- ²	--	
	10/18/96	13.55	140.10	Sheen	55,000	10,000	4,700	1,900	5,000	--	--	
	01/23/97	8.95	144.70	Sheen	120,000	6,800	19,000	1,600	16,000	-- ³	--	
	04/24/97	9.66	143.99	Sheen	64,000	12,000	5,500	2,400	5,500	--	--	
	07/24/97	12.80	140.85	<0.01/Sheen	67,000	8,200	5,000	1,900	4,400	--	--	
	10/27-28/97	14.15	139.50	Sheen	240,000	7,600	13,000	4,300	24,000	--	--	
	01/21/98 ⁸	6.84	146.81	0.00/Sheen	86,000	9,900	7,100	2,100	13,000	1,400	--	
	04/15/98 ⁸	7.33	146.32	0.00	81,000	8,300	9,700	2,300	11,000	2,300/49 ⁶	--	
	07/15/98 ⁸	9.86	143.79	0.00	70,000	10,000	5,600	2,300	7,900	5ND/420 ⁶	--	
	10/15/98 ⁸	12.74	140.91	0.00	74,400	11,400	4,430	2,330	4,880	767/ND ^{5,6}	--	
	01/27/99 ⁸	9.63	144.02	0.00/Sheen	110,000	11,000	11,000	5,100	19,000	4,700/190 ⁶	--	
	04/22/99	7.48	146.17	0.00	76,000	10,000	6,000	2,300	8,700	2,700/270 ⁶	--	
	07/22/99 ⁸	11.64	142.01	0.00	65,000	10,000	5,700	2,100	6,900	5ND/340 ¹¹	--	
	10/20/99 ⁸	12.56	141.09	0.00	68,000 ¹²	6,000	4,800	2,800	11,000	ND ⁵	--	
	01/05/00 ⁸	12.66	140.99	0.00	51,200 ¹²	4,460	4,600	1,680	7,200	ND ⁵	--	
	04/06/00 ⁸	8.85	144.80	0.00/Sheen	91,000 ¹²	8,200	12,000	3,500	15,000	2,400	--	
	07/21/00 ⁸	11.40	142.25	0.00/Sheen	57,900 ¹²	9,290	7,120	2,320	7,770	ND ⁵	--	
153.65	10/30/00 ⁸	13.34	140.31	0.00	50,200 ¹²	4,870	4,280	2,050	7,840	1,190	--	
	01/24/01 ⁸	11.75	141.90	0.00	96,600 ¹⁵	8,820	6,490	2,770	6,760	ND ⁵	--	
	04/25/01 ⁸	9.46	144.19	0.00	78,500 ¹⁷	9,400	13,700	3,480	14,700	ND ⁵	--	
	07/25/01 ⁸	12.75	140.90	0.00	62,000	4,200	5,600	2,200	9,700	<1,200	--	
	10/24/01 ⁸	15.09	138.56	0.00	84,000	6,200	6,300	2,400	9,600	3,300	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product							NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)	
MW-2	01/23/02 ^{8,20}	8.17	145.48	0.00	--	--	--	--	--	--	--	
(cont)	01/26/02 ⁸	7.92	145.73	0.00	45,000	4,400	4,900	1,800	6,700	290	--	
	04/24/02 ⁸	9.37	144.28	0.00	64,000	6,100	7,500	2,400	11,000	<250	--	
	07/24/02 ⁸	12.45	141.20	0.00	54,000	4,000	4,900	2,300	9,400	270	--	
	10/18/02	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	
	02/03/04-04/03 ⁸	8.26	145.39	0.00	61,000	6,000	6,000	2,200	10,000	<250	--	
	04/24/03	8.36	145.29	0.00	41,000	5,500	6,200	2,200	9,300	<400/<100 ⁶	--	
	07/30/03 ⁸	11.34	142.31	0.00	35,000	3,200	3,600	1,800	6,500	1,600/220 ⁶	--	
	10/16/03 ⁸	13.84	139.81	0.00	41,000	3,200	3,200	1,600	7,800	390/86 ⁶	--	
	01/07/04	7.96	145.69	0.00	46,000	6,200	1,900	1,400	7,000	330	--	
156.18	05/11/04	10.75	145.43	0.00	69,000	1,200	1,300	1,500	3,100	280	--	
	08/05/04	12.55	143.63	0.00	37,000 ²⁵	3,600	380	1,200	3,100	15	--	
	11/03/04	13.01	143.17	0.00	20,000 ²⁵	3,200	330	1,100	2,200	360	--	
	02/17/05	8.93	147.25	0.00	22,000	1,800	900	910	5,500	100⁶	--	
MW-3	04/20/89	--	--	--	21,000	900	260	870	1,800	--	--	
	08/17/89	--	--	--	16,000	3,400	480	740	2,400	--	--	
	11/15/89	--	--	--	9,400	1,700	240	180	310	--	--	
	03/26/90	--	--	--	22,000	3,200	450	970	1,600	--	--	
	06/06/90	--	--	--	11,000	2,100	280	350	480	--	--	
	09/27/90	--	--	--	2,000	570	45	22	46	--	--	
	01/16/91	--	--	--	3,100	840	57	95	90	--	--	
	04/30/91	--	--	--	6,700	690	110	250	380	--	--	
	07/25/91	--	--	--	3,800	800	110	200	230	--	--	
	10/25/91	--	--	--	3,700	1,300	43	130	59	--	--	
	01/30/92	--	--	--	7,700	2,200	140	410	330	--	--	
	04/30/92	--	--	--	21,000	1,300	310	1,400	2,900	--	--	
	07/22/92	--	--	--	4,400	640	54	130	160	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product							NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)	
MW-3	10/14/92	--	--	--	1,600	250	5.2	6.1	14	--	--	
(cont)	01/13/93	--	--	--	13,000	290	20	400	460	--	--	
154.19	04/12/93	8.45	145.74	Sheen	18,000	730	250	910	1,800	--	--	
	07/10/93	11.52	142.67	0.00	5,500	180	33	200	280	--	--	
153.86	10/12/93	14.69	139.17	0.00	17,000	800	240	930	1,500	--	--	
	01/10/94	12.45	141.41	0.00	7,700	200	26	260	270	--	--	
	04/20/94	10.51	143.35	0.00	1,300	37	71	590	910	--	--	
	07/14/94	13.14	140.72	0.00	3,900	310	59	220	270	--	--	
	10/18/94	15.83	138.03	0.00	2,200	140	15	61	50	--	--	
	01/16/95	6.45	147.41	0.00	25,000	710	200	1,200	2,300	--	--	
	04/13/95	6.30	147.56	0.00	23,000	670	270	1,400	2,700	--	--	
	07/20/95	10.67	143.19	0.00	13,000	1,400	310	1,200	2,000	--	--	
	10/17/95	13.99	139.87	0.00	3,700	320	36	130	110	-- ¹	--	
	01/18/96	10.35	143.51	0.00	8,800	480	76	500	760	-- ²	--	
	04/17/96	7.67	146.19	0.00	5,000	330	100	420	540	-- ²	--	
	07/18/96	10.81	143.05	0.00	21,000	800	700	950	2,300	-- ²	--	
	10/18/96	13.63	140.23	0.00	1,100	81	15	67	60	--	--	
	01/23/97	8.68	145.18	0.00	50,000	3,600	9,200	930	8,100	-- ⁴	--	
	04/24/97	9.21	144.65	0.00	13,000	530	220	1,000	1,500	--	--	
	07/24/97	12.68	141.18	0.00	3,800	200	61	250	270	--	--	
10/27-28/97	13.84	140.02	0.00	7,000	560	190	280	750	--	--	--	
	01/21/98	6.54	147.32	0.00	710	15	1.8	6.7	11	70	--	
	04/15/98	6.69	147.17	0.00	4,900	90	28	220	210	160/ND ⁶	--	
	07/15/98	9.31	144.55	0.00	9,100	650	290	1,400	1,900	200/20 ⁶	--	
	10/15/98	12.58	141.28	0.00	3,940	240	49.4	261	216	290/312 ⁶	--	
	01/27/99	9.22	144.64	0.00	14,000	540	190	1,100	1,300	570/19 ⁶	--	
	04/22/99	7.11	146.75	0.00	11,000	270	140	700	1,000	370/ND ^{5,6}	--	
	07/22/99	11.41	142.45	0.00	6,000	280	110	500	580	310/220 ¹¹	--	
	10/20/99	12.42	141.44	0.00	14,000 ¹²	680	220	1,200	1,400	70	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product					NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)
153.86	01/05/00	12.55	141.31	0.00	8,840 ¹²	324	114	671	628	ND ⁴
MW-3	04/06/00	8.13	145.73	0.00	10,000 ¹²	200	150	730	730	420
(cont)	07/21/00	11.11	142.75	0.00	3,250 ¹²	114	58.4	333	353	147
	10/30/00	13.10	140.76	0.00	1,340 ¹²	33.4	5.69	45.6	26.6	36.4
	01/24/01	11.53	142.33	0.00	3,600 ¹⁵	115	36.6	266	228	180
	04/25/01	9.19	144.67	0.00	11,700 ^{16,18}	64.6	77.7	917	980	11.4
	07/25/01	12.46	141.40	0.00	1,900	39	25	110	100	140
	10/24/01	14.90	138.96	0.00	1,600	79	14	64	27	440
	01/23/02 ²⁰	8.05	145.81	0.00	--	--	--	--	--	--
	01/26/02	7.79	146.07	0.00	2,700	19	12	180	170	150
	04/24/02	9.16	144.70	0.00	10,000	73	110	680	730	51
	07/24/02	11.71	142.15	0.00	3,500	35	30	210	200	26
	10/18/02	14.18	139.68	0.00	5,000	130	49	320	280	140
	02/03-04/03	8.11	145.75	0.00	680	<0.50	1.8	3.9	8.7	12
	04/24/03	7.89	145.97	0.00	3,300	41	32	320	290	100/<10 ⁶
	07/30/03	10.84	143.02	0.00	350	1.5	1.1	1.4	2.4	12/<2.0 ⁶
	10/16/03	13.36	140.50	0.00	620	12	7.4	14	25	12/<2.0 ⁶
	01/07/04	9.10	144.76	0.00	830	14	7.4	45	43	29
156.37	05/11/04	9.60	146.77	0.00	830	11	9.7	32	24	39
	08/05/04	12.23	144.14	0.00	1,200 ²⁵	14	9.2	22	16	76
	11/03/04	12.72	143.65	0.00	1,000 ²⁵	8.3	6.6	17	11	53
	02/17/05	8.49	147.88	0.00	1,100²⁶	4.1	2.1	42	37	7.3⁶
MW-4	04/20/89	--	--	--	100,000	18,000	14,000	2,000	7,900	--
	08/17/89	--	--	--	79,000	7,800	7,600	1,500	6,100	--
	11/15/89	--	--	--	73,000	6,300	1,100	820	3,300	--
	03/26/90	--	--	--	--	--	--	--	--	--
	06/06/90	--	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-4	09/27/90	--	--	--	--	--	--	--	--	--	--	
(cont)	01/16/91	--	--	--	--	--	--	--	--	--	--	
	04/30/91	--	--	--	--	--	--	--	--	--	--	
	07/25/91	--	--	--	--	--	--	--	--	--	--	
	10/25/91	--	--	--	--	--	--	--	--	--	--	
	01/30/92	--	--	--	--	--	--	--	--	--	--	
	04/30/92	--	--	--	--	--	--	--	--	--	--	
	07/22/92	--	--	--	100,000	21,000	27,000	4,000	21,000	--	--	
	10/14/92	--	--	--	--	--	--	--	--	--	--	
	01/13/93	--	--	--	--	--	--	--	--	--	--	
153.88	04/12/93	8.70	145.20**	0.03	--	--	--	--	--	--	--	
	07/10/93	11.60	142.28	Sheen	100,000	20,000	35,000	3,600	19,000	--	--	
153.13	10/12/93	14.72	138.55**	0.19	--	--	--	--	--	--	--	
	01/10/94	11.92	141.32**	0.15	--	--	--	--	--	--	--	
	04/20/94	10.08	143.11**	0.08	--	--	--	--	--	--	--	
	07/14/94	12.52	140.63**	0.02	--	--	--	--	--	--	--	
	10/18/94	15.40	137.84**	0.14	--	--	--	--	--	--	--	
	01/16/95	5.97	147.73**	0.76	--	--	--	--	--	--	--	
	04/13/95	5.95	147.18	<0.01/Sheen	94,000	15,000	13,000	2,800	14,000	--	--	
	07/20/95	10.20	142.95**	0.02	--	--	--	--	--	--	--	
	10/17/95	13.33	139.80	<0.01/Sheen	95,000	14,000	14,000	1,800	9,400	--	--	
	01/18/96	8.80	144.33	<0.01/Sheen	340,000	14,000	19,000	6,200	34,000	-- ²	--	
	04/17/96	7.32	145.81	Sheen	67,000	13,000	11,000	2,400	11,000	-- ²	--	
	07/18/96	10.28	142.85	<0.01/Sheen	91,000	8,900	8,900	2,400	9,400	-- ²	--	
	10/18/96	12.72	140.41	<0.01/Sheen	110,000	15,000	13,000	3,700	17,000	--	--	
	01/23/97	8.34	144.80**	0.01	130,000	7,300	21,000	1,800	18,000	-- ³	--	
	04/24/97	8.96	144.17	<0.01/Sheen	160,000	15,000	13,000	3,700	17,000	--	--	
	07/24/97	12.07	141.06	<0.01/Sheen	130,000	11,000	13,000	2,600	13,000	--	--	
	10/27-28/97	13.40	139.73	Sheen	200,000	14,000	27,000	4,100	24,000	--	--	

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Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product							NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)	
MW-4	01/21/98 ⁸	5.72	147.41	0.00/Sheen	130,000	11,000	21,000	2,700	16,000	ND ⁵	--	
(cont)	04/15/98 ⁸	6.87	146.26	0.00	89,000	13,000	19,000	2,800	15,000	2,600/36 ⁶	--	
	07/15/98 ⁸	9.10	144.03	0.00	120,000	15,000	14,000	3,600	18,000	5ND/ND ^{5,6}	--	
	10/15/98 ⁸	12.10	141.03	0.00/Sheen	128,000	18,000	15,900	3,450	17,400	307/ND ^{5,6}	--	
	01/27/99 ⁸	8.72	144.41	0.00/Sheen	120,000	15,000	16,000	3,500	18,000	5ND/57 ⁶	--	
	04/22/99	6.71	146.42	0.00	110,000	14,000	13,000	2,800	15,000	2,800/ND ^{5,6}	--	
	07/22/99 ⁸	11.06	142.07	0.00/Sheen	120,000	16,000	14,000	3,100	15,000	5ND/ND ¹¹	--	
	10/20/99 ¹³	12.02	141.11	0.00	140,000 ¹²	11,000	21,000	5,800	25,000	2,900	--	
	01/05/00 ¹³	12.36	140.77	0.00	83,800 ¹²	4,400	12,800	2,360	14,300	ND ⁵	--	
	04/06/00	7.77	145.36	0.00/Sheen	200,000 ¹²	15,000	20,000	5,700	25,000	ND ⁵	--	
	07/21/00	10.75	142.38	0.00/Sheen	73,400 ¹²	13,900	12,600	2,650	12,400	ND ⁵	--	
	10/30/00	12.77	140.36	0.00	96,900 ¹²	4,230	17,000	3,440	22,400	ND ⁵	--	
	01/24/01	10.97	142.16	0.00	335,000 ¹⁵	5,880	18,700	6,500	29,500	ND ⁵	--	
153.13	04/25/01	8.75	144.38	0.00	87,700 ^{17,18}	14,200	16,200	3,740	17,700	43.3	--	
	07/25/01	12.03	141.10	0.00	120,000	9,200	17,000	3,400	19,000	<500	--	
	10/24/01 ¹⁹	14.75	138.75**	0.49	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							
	01/23/02 ²¹	7.44	145.86**	0.22	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							
	04/24/02	8.81	144.36**	0.05	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							
	07/24/02 ²²	11.53	141.65**	0.06	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							
	10/18/02 ²²	13.81	139.37**	0.07	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							
	02/03-04/03 ²²	7.16	146.03**	0.08	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							
	04/24/03	7.60	145.60**	0.09	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							
	07/30/03	10.68	142.50**	0.06	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							
	10/16/03	13.59	139.54	0.00	82,000	6,400	9,800	2,200	20,000	<200/<200 ⁶	--	
	01/07/04	7.21	145.92	0.00	88,000	9,400	6,400	2,200	16,000	50	--	
155.64	05/11/04	9.30	146.34	0.00	51,000	2,400	2,900	1,400	6,600	12	--	
	08/05/04	11.85	143.79	0.00/Sheen	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							
	11/02/04	12.52	143.12	0.00/Sheen	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							
	02/17/05	--	--	0.00/Sheen	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							

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Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-5	11/15/89	--	--	--	ND	ND	ND	ND	ND	--	--	
	03/26/90	--	--	--	ND	ND	ND	ND	ND	--	--	
	06/06/90	--	--	--	ND	ND	ND	ND	ND	--	--	
	09/27/90	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/16/91	--	--	--	14	1.2	2.3	0.53	2.3	--	--	
	04/30/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/25/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	10/25/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/30/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	04/30/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/22/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	10/14/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/13/93	--	--	--	ND	ND	ND	ND	ND	--	--	
153.42	04/12/93	8.25	145.17	0.00	ND	ND	ND	ND	ND	--	--	
	07/10/93	11.31	142.11	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	
153.01	10/12/93	14.40	138.61	0.00	ND	ND	ND	ND	ND	--	--	
	01/10/94	12.07	140.94	0.00	--	--	--	--	--	--	--	
	04/20/94	10.36	142.65	0.00	ND	ND	ND	ND	ND	1.4	--	
	07/14/94	13.20	139.81	0.00	--	--	--	--	--	--	--	
	10/18/94	15.96	137.05	0.00	ND	ND	ND	ND	ND	0.75	--	
	01/16/95	5.79	147.22	0.00	--	--	--	--	--	--	--	
	04/13/95	6.18	146.83	0.00	ND	ND	ND	ND	ND	--	--	
	07/20/95	10.77	142.24	0.00	--	--	--	--	--	--	--	
	10/17/95	14.18	138.83	0.00	ND	ND	ND	ND	ND	--	--	
	01/18/96	9.88	143.13	0.00	--	--	--	--	--	--	--	
	04/17/96	7.50	145.51	0.00	ND	ND	ND	ND	ND	--	--	
	07/18/96	10.80	142.21	0.00	--	--	--	--	--	--	--	
	10/18/96	13.85	139.16	0.00	ND	ND	ND	ND	ND	--	--	
	01/23/97	8.39	144.62	0.00	--	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product					NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)
MW-5	04/24/97	9.01	144.00	0.00	ND	ND	ND	ND	ND	--
(cont)	07/24/97	12.80	140.21	0.00	--	--	--	--	--	--
	10/27-28/97	14.30	138.71	0.00	ND	ND	ND	ND	ND	--
	01/21/98	6.00	147.01	0.00	--	--	--	--	--	--
	04/15/98	6.60	146.41	0.00	ND	ND	ND	ND	ND	ND/ND ⁶
	07/15/98	9.42	143.59	0.00	--	--	--	--	--	--
	10/15/98	12.76	140.25	0.00	ND	ND	ND	ND	ND	ND/ND ⁶
	01/27/99	8.92	144.09	0.00	--	--	--	--	--	--
	04/22/99 ⁹	6.86	146.15	0.00	ND	ND	ND	ND	ND	ND/ND ⁶
	07/22/99	11.52	141.49	0.00	--	--	--	--	--	--
	10/20/99	12.38	140.63	0.00	ND	ND	ND	ND	ND	ND
	01/05/00	12.49	140.52	0.00	--	--	--	--	--	--
	04/06/00	7.95	145.06	0.00	ND	ND	ND	ND	ND	3.2
	07/21/00	10.93	142.08	0.00	SAMPLED SEMI-ANNUALLY					--
	10/30/00	13.32	139.69	0.00	ND	ND	ND	ND	ND	ND
	01/24/01	11.36	141.65	0.00	--	--	--	--	--	--
	04/25/01	8.78	144.23	0.00	ND	ND	ND	ND	1.06	1.47
	07/25/01	12.55	140.46	0.00	--	--	--	--	--	--
	10/24/01	15.00	138.01	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	01/23/02	7.60	145.41	0.00	--	--	--	--	--	--
153.01	04/24/02	9.00	144.01	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/24/02	12.07	140.94	0.00	--	--	--	--	--	--
	10/18/02	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--
	02/03-04/03	7.47	145.54	0.00	SAMPLED SEMI-ANNUALLY					--
	04/24/03	7.50	145.51	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ⁶
	07/30/03	10.96	142.05	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ⁶
	10/16/03	13.45	139.56	0.00	<50	<0.50	0.73	<0.50	1.1	<2.0/<2.0 ⁶
	01/07/04	7.30	145.71	0.00	<50	<0.50	<0.50	<0.50	<1.0	0.8
156.54	05/11/04	9.22	147.32	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-5	08/05/04	12.26	144.28	0.00	<50	<0.50	<0.50	<0.50	<1.0	0.79	--	
	11/03/04	12.67	143.87	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	02/17/05	8.20	148.34	0.00	<50	<0.50	<0.50	0.56	2.2	<0.50⁶	--	
MW-6	06/06/90	--	--	--	ND	2.0	6.0	0.64	3.2	--	--	
	09/27/90	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/16/91	--	--	--	ND	ND	0.18	ND	0.51	--	0.15	
	04/30/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/25/91	--	--	--	ND	ND	ND	ND	ND	--	ND	
	10/25/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/30/92	--	--	--	ND	ND	ND	ND	ND	--	ND	
	04/30/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/22/92	--	--	--	ND	ND	ND	ND	ND	--	ND	
	10/14/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/13/93	--	--	--	ND	ND	ND	ND	ND	--	25	
152.88	04/12/93	6.98	145.90	0.00	ND	ND	ND	ND	ND	--	--	
	07/10/93	10.02	142.86	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	
152.64	10/12/93	13.29	139.35	0.00	ND	ND	ND	ND	ND	--	1.2	
	01/10/94	10.84	141.80	0.00	--	--	--	--	--	--	--	
	04/20/94	9.72	142.92	0.00	ND	ND	ND	ND	ND	--	0.29	
	07/14/94	13.34	139.30	0.00	--	--	--	--	--	--	--	
	10/18/94	16.02	136.62	0.00	ND	ND	ND	ND	ND	--	ND	
	01/16/95	4.91	147.73	0.00	--	--	--	--	--	--	--	
	04/13/95	5.29	147.35	0.00	ND	ND	ND	ND	ND	--	68	
	07/20/95	9.79	142.85	0.00	--	--	--	--	--	--	--	
	10/17/95	14.25	138.39	0.00	ND	ND	ND	ND	ND	--	0.63	
	01/18/96	8.88	143.76	0.00	--	--	--	--	--	--	--	
	04/17/96	6.53	146.11	0.00	ND	ND	ND	ND	ND	--	6.8	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product							NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)	
MW-6	07/18/96	9.83	142.81	0.00	SAMPLED SEMI-ANNUALLY	--	--	--	--	--	--	
(cont)	10/18/96	14.02	138.62	0.00	ND	ND	ND	ND	ND	--	3.4	
	01/23/97	7.62	145.02	0.00	--	--	--	--	--	--	--	
	04/24/97	8.50	144.14	0.00	ND	ND	ND	ND	ND	--	0.96	
	07/24/97	13.11	139.53	0.00	--	--	--	--	--	--	--	
	10/27-28/97	14.38	138.26	0.00	ND	ND	ND	ND	ND	--	ND	
	01/21/98	5.26	147.38	0.00	--	--	--	--	--	--	--	
	04/15/98	7.14	145.50	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	ND	
	07/15/98	8.86	143.78	0.00	--	--	--	--	--	--	--	
	10/15/98 ⁷	13.18	139.46	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	ND	
	01/27/99	8.62	144.02	0.00	--	--	--	--	--	--	--	
	04/22/99	6.28	146.36	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	4.3	
	07/22/99	11.61	141.03	0.00	--	--	--	--	--	--	--	
	10/20/99	12.73	139.91	0.00	ND	ND	ND	ND	ND	ND	0.50	
	01/05/00	13.07	139.57	0.00	--	--	--	--	--	--	--	
	04/06/00	7.47	145.17	0.00	ND	ND	ND	ND	ND	ND	5.3	
	07/21/00	11.32	141.32	0.00	--	--	--	--	--	--	--	
	10/30/00	13.75	138.89	0.00	ND	ND	ND	ND	ND	ND	ND	
	01/24/01	11.75	140.89	0.00	--	--	--	--	--	--	--	
152.64	04/25/01	8.63	144.01	0.00	ND	ND	ND	ND	ND	ND	1.5	
	07/25/01	12.96	139.68	0.00	--	--	--	--	--	--	--	
	10/24/01	15.16	137.48	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	01/23/02	6.86	145.78	0.00	SAMPLED SEMI-ANNUALLY	--	--	--	--	--	--	
	04/24/02	8.38	144.26	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	07/24/02	12.24	140.40	0.00	--	--	--	--	--	--	--	
	10/18/02	14.75	137.89	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	02/03-04/03	6.83	145.81	0.00	SAMPLED SEMI-ANNUALLY	--	--	--	--	--	--	
	04/24/03	7.28	145.36	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ⁶	--	
	07/30/03	11.02	141.62	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ⁶	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-6	10/16/03	13.86	138.78	0.00	<50	<0.50	0.71	<0.50	1.1	<2.0/<2.0 ⁶	--	
(cont)	01/07/04	6.82	145.82	0.00	220	<0.50	<0.50	<0.50	<1.0	<0.50	--	
156.18	05/11/04	8.93	147.25	0.00	74	1.6	3.6	2.7	12	<0.50	--	
	08/05/04	12.93	143.25	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	11/03/04	13.61	142.57	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	02/17/05	7.91	148.27	0.00	<50	<0.50	<0.50	<0.50	1.0	<0.50⁶	--	
MW-7	06/06/90	--	--	--	ND	0.3	3.6	ND	0.52	--	--	
	09/27/90	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/16/91	--	--	--	ND	0.59	0.42	ND	0.3	--	0.34	
	04/30/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/25/91	--	--	--	ND	ND	ND	ND	ND	--	ND	
	10/25/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/30/92	--	--	--	ND	ND	ND	ND	ND	--	ND	
	04/30/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/22/92	--	--	--	ND	ND	ND	ND	ND	--	ND	
	10/14/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/13/93	--	--	--	ND	ND	ND	ND	ND	--	25	
152.51	04/12/93	7.55	144.96	0.00	ND	ND	ND	ND	ND	--	--	
	07/10/93	10.47	142.04	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	
152.23	10/12/93	13.72	138.51	0.00	ND	ND	ND	ND	ND	--	2.8	
	01/10/94	11.22	141.01	0.00	--	--	--	--	--	--	--	
	04/20/94	10.08	142.15	0.00	ND	ND	ND	ND	0.58	--	0.27	
	07/14/94	12.90	139.33	0.00	--	--	--	--	--	--	--	
	10/18/94	15.56	136.67	0.00	ND	ND	ND	ND	0.99	--	ND	
	01/16/95	5.31	146.92	0.00	--	--	--	--	--	--	--	
	04/13/95	5.92	146.31	0.00	ND	0.86	ND	ND	ND	--	ND	
	07/20/95	10.40	141.83	0.00	--	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product					NITRATES		
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)
MW-7	10/17/95	13.74	138.49	0.00	ND	ND	ND	ND	ND	-- ¹	ND
	01/18/96	9.46	142.77	0.00	--	--	--	--	--	--	--
	04/17/96	7.08	145.15	0.00	ND	ND	ND	ND	ND	--	0.42
	07/18/96	10.03	142.20	0.00	--	--	--	--	--	--	--
	10/18/96	13.31	138.92	0.00	ND	ND	ND	ND	ND	--	0.81
	01/23/97	8.01	144.22	0.00	--	--	--	--	--	--	--
	04/24/97	8.95	143.28	0.00	ND	ND	ND	ND	ND	--	ND
	07/24/97	12.40	139.83	0.00	--	--	--	--	--	--	--
	10/27-28/97	13.87	138.36	0.00	ND	ND	ND	ND	ND	--	ND
	01/21/98	5.40	146.83	0.00	--	--	--	--	--	--	--
	04/15/98	7.18	145.05	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	ND
	07/15/98	9.01	143.22	0.00	--	--	--	--	--	--	--
	10/15/98 ⁷	12.51	139.72	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	ND
	01/27/99	8.67	143.56	0.00	--	--	--	--	--	--	--
	04/22/99	6.78	145.45	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	0.23
	07/22/99	11.38	140.85	0.00	--	--	--	--	--	--	--
	10/20/99	12.62	139.61	0.00	ND	ND	ND	ND	ND	ND	0.11
	01/05/00	12.85	139.38	0.00	--	--	--	--	--	--	--
	04/06/00	7.87	144.36	0.00	ND	ND	ND	ND	ND	ND	ND
	07/21/00	11.10	141.13	0.00	SAMPLED SEMI-ANNUALLY					--	--
	10/30/00	13.61	138.62	0.00	ND	ND	ND	ND	ND	ND	ND
	01/24/01	11.23	141.00	0.00	--	--	--	--	--	--	--
	04/25/01	8.86	143.37	0.00	95.7 ¹⁶	ND	ND	ND	ND	ND	ND
	07/25/01	12.44	139.79	0.00	--	--	--	--	--	--	--
	10/24/01	14.68	137.55	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0
152.23	01/23/02	7.33	144.90	0.00	--	--	--	--	--	--	--
	04/24/02	8.76	143.47	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.470
	07/24/02	11.82	140.41	0.00	SAMPLED SEMI-ANNUALLY					--	--
	10/18/02	14.23	138.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.20 ²³

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-7	02/03-04/03	7.34	144.89	0.00	SAMPLED SEMI-ANNUALLY	--	--	--	--	--	--	
(cont)	04/24/03	7.77	144.46	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ⁶	--	
	07/30/03	10.81	141.42	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ⁶	--	
	10/16/03	13.69	138.54	0.00	<50	<0.50	0.69	<0.50	1.0	<2.0/<2.0 ⁶	--	
	01/07/04	7.37	144.86	0.00	220	<0.50	<0.50	<0.50	<1.0	<0.50	--	
155.78	05/11/04	9.20	146.58	0.00	210	3.9	4.8	3.4	13	<0.50	--	
	08/05/04	12.36	143.42	0.00	79 ²⁵	0.91	<0.50	<0.50	<1.0	<0.50	--	
	11/03/04	13.00	142.78	0.00	<50	0.70	<0.50	<0.50	<1.0	<0.50	--	
	02/17/05	8.02	147.76	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50⁶	--	
MW-8	11/15/89	--	--	--	30,000	3,300	1,900	490	2,000	--	--	
	03/26/90	--	--	--	52,000	6,500	5,400	1,400	4,500	--	--	
	06/06/90	--	--	--	45,000	6,200	4,100	1,100	3,600	--	--	
	09/27/90	--	--	--	28,000	3,800	1,500	720	1,800	--	--	
	01/16/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	04/30/91	--	--	--	--	--	--	--	--	--	--	
	07/25/91	--	--	--	32,000	4,800	4,200	1,400	3,900	--	--	
	10/25/91	--	--	--	51,000	5,400	3,000	1,100	3,000	--	--	
	01/30/92	--	--	--	29,000	2,800	2,200	1,100	2,800	--	--	
	04/30/92	--	--	--	57,000	5,000	6,100	1,700	7,100	--	--	
	07/22/92	--	--	--	42,000	4,800	4,300	1,300	3,700	--	--	
	10/14/92	--	--	--	4,800	580	230	130	190	--	--	
	01/13/93	--	--	--	26,000	1,600	1,600	830	2,000	--	--	
153.44	04/12/93	8.58	144.86	0.00	41,000	4,200	3,200	1,200	2,800	--	--	
	07/10/93	11.66	141.78	0.00	38,000	2,000	4,200	1,600	4,400	--	--	
153.13	10/12/93	14.72	138.41	<0.01	--	--	--	--	--	--	--	
	01/10/94	12.11	141.02	Sheen	30,000	2,000	2,100	1,100	2,600	--	--	
	04/20/94	10.37	142.76	0.00	43,000	3,700	4,400	1,400	3,700	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product							NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)	
MW-8	07/14/94	12.72	140.41	0.00	24,000	4,900	3,800	1,300	3,000	--	--	
(cont)	10/18/94	15.36	137.77	0.00	46,000	3,100	2,900	1,300	2,700	--	--	
	01/16/95	6.17	146.96	0.00	41,000	4,000	2,000	1,000	1,800	--	--	
	04/13/95	6.97	146.16	0.00	50,000	7,200	7,100	1,700	5,500	--	--	
	07/20/95	10.78	142.35	Sheen	33,000	4,300	4,600	1,300	3,800	--	--	
	10/17/95	13.61	139.52	Sheen	110,000	2,500	2,800	1,100	3,200	-- ¹	--	
	01/18/96	9.80	143.33	0.00	26,000	3,100	2,100	1,100	2,700	-- ²	--	
	04/17/96	7.98	145.15	0.00	40,000	5,600	5,600	1,400	4,300	-- ²	--	
	07/18/96	10.66	142.47	0.00	47,000	3,000	2,800	1,600	3,900	-- ²	--	
	10/18/96	13.18	139.95	Sheen	45,000	3,000	2,600	1,100	2,800	--	--	
	01/23/97	8.27	144.86	0.00	110,000	7,900	21,000	2,000	18,000	-- ³	--	
	04/24/97	9.49	143.64	Sheen	33,000	2,700	2,500	1,100	2,500	--	--	
	07/24/97	12.32	140.81	Sheen	40,000	2,100	3,000	1,100	2,800	--	--	
	10/27-28/97	13.68	139.45	Sheen	20,000	1,000	1,000	660	1,900	--	--	
	01/21/98	6.32	146.81	0.00	13,000	840	730	70	1,300	ND ⁵	--	
	04/15/98	7.59	145.54	0.00	40,000	4,500	4,800	1,500	4,200	1,400/ND ⁶	--	
	07/15/98	9.63	143.50	0.00	36,000	4,500	4,400	1,500	4,200	6,200/ND ⁶	--	
	10/15/98	12.35	140.78	0.00	32,600	2,880	2,770	1,120	2,890	ND/ND ^{5,6}	--	
	01/27/99	9.02	144.11	0.00	31,000	2,500	2,800	1,300	3,500	⁵ ND/ND ⁶	--	
	04/22/99	7.32	145.81	0.00	43,000	3,600	4,800	1,700	4,800	⁵ ND/71 ⁶	--	
	07/22/99	11.50	141.63	0.00	45,000	4,500	4,800	1,500	4,800	⁵ ND/ND ¹¹	--	
	10/20/99	12.31	140.82	0.00	21,000 ¹²	780	ND ⁵	570	1,900	ND ⁵	--	
	01/05/00	12.42	140.71	0.00	12,700 ¹²	737	674	488	1,010	ND ⁵	--	
	04/06/00	8.24	144.89	0.00/Sheen	37,000 ¹²	4,400	4,700	1,500	4,000	1,700	--	
	07/21/00	11.16	141.97	0.00/Sheen	22,200 ¹²	3,110	1,590	862	2,070	1,330	--	
	10/30/00	12.88	140.25	0.00	13,200 ¹²	693	815	632	1,300	ND ⁵	--	
	01/24/01	11.32	141.81	0.00	27,300 ¹⁵	3,060	1,570	972	2,270	472	--	
	04/25/01	9.24	143.89	0.00	31,900 ¹⁷	2,390	2,960	1,520	3,550	20.0	--	
	07/25/01	12.30	140.83	0.00	32,000	2,900	2,200	930	2,600	<250	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product							NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)	
MW-8	10/24/01	14.48	138.65	0.00	20,000	2,000	860	830	1,500	1,800	--	
(cont)	01/23/02 ²⁰	7.91	145.22	0.00	--	--	--	--	--	--	--	
	01/26/02	7.70	145.43	0.00	25,000	2,100	1,900	1,100	2,300	<250	--	
	04/24/02	9.30	143.83	0.00	32,000	2,300	2,100	970	2,400	57	--	
	07/24/02	11.86	141.27	0.00	24,000	950	740	880	2,000	90	--	
	10/18/02	14.02	139.11	0.00	30,000	2,100	2,400	1,200	3,600	<120	--	
153.13	02/03-04/03	7.75	145.38	0.00	15,000	1,800	880	630	720	<50	--	
	04/24/03	8.33	144.80	0.00	15,000	2,500	2,300	970	2,000	190/<40 ⁶	--	
	07/30/03	11.08	142.05	0.00	7,800	540	310	250	520	320/<10 ⁶	--	
	10/16/03	13.42	139.71	0.00	9,800	800	430	370	710	160/<20 ⁶	--	
	01/07/04	7.80	145.33	0.00	10,000	950	220	170	880	<2.5	--	
155.62	05/11/04	10.55	145.07	0.00	2,100	120	27	64	72	<2.5	--	
	08/05/04	12.55	143.07	0.00	14,000 ²⁵	870	180	390	390	<0.50	--	
	11/03/04	12.70	142.92	0.00	12,000 ²⁵	740	200	500	500	<0.50	--	
	02/17/05	8.65	146.97	0.00	7,000²⁶	410	230	220	520	<5.0⁶	--	
MW-9	11/15/89	--	--	--	ND	ND	ND	ND	ND	--	--	
	03/26/90	--	--	--	44	0.92	0.5	1.3	ND	--	--	
	06/06/90	--	--	--	ND	ND	0.5	ND	ND	--	--	
	09/27/90	--	--	--	ND	ND	0.62	ND	ND	--	--	
	01/16/91	--	--	--	ND	ND	ND	ND	0.3	--	--	
	04/30/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/25/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	10/25/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/30/92	INACCESSIBLE	--	--	--	--	--	--	--	--	--	
	04/30/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/22/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	10/14/92	--	--	--	ND	ND	ND	ND	ND	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product							NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)	
	01/13/93	--	--	--	ND	ND	ND	ND	ND	--	--	
152.99	04/12/93	7.67	145.32	0.00	ND	ND	ND	ND	ND	--	--	
	07/10/93	10.82	142.17	0.00	SAMPLED SEMI-ANNUALLY							
152.67	10/12/93	14.00	138.67	0.00	ND	ND	ND	ND	ND	--	--	
MW-9	01/10/94	10.22	142.45	0.00	--	--	--	--	--	--	--	
(cont)	04/20/94	8.70	143.97	0.00	ND	ND	ND	ND	ND	--	--	
	07/14/94	10.38	142.29	0.00	--	--	--	--	--	--	--	
	10/18/94	12.76	139.91	0.00	ND	ND	ND	ND	ND	--	--	
	01/16/95	6.11	146.56	0.00	--	--	--	--	--	--	--	
	04/13/95	6.88	145.79	0.00	ND	ND	ND	ND	ND	--	--	
	07/20/95	8.92	143.75	0.00	--	--	--	--	--	--	--	
	10/17/95	11.11	141.56	0.00	ND	ND	ND	ND	ND	--	--	
	01/18/96	8.10	144.57	0.00	--	--	--	--	--	--	--	
	04/17/96	7.27	145.40	0.00	ND	ND	ND	ND	ND	--	--	
	07/18/96	8.88	143.79	0.00	--	--	--	--	--	--	--	
	10/18/96	10.65	142.02	0.00	ND	ND	ND	ND	ND	--	--	
	01/23/97	7.83	144.84	0.00	--	--	--	--	--	--	--	
	04/24/97	8.10	144.57	0.00	ND	ND	ND	ND	ND	--	--	
	07/24/97	9.78	142.89	0.00	--	--	--	--	--	--	--	
	10/27-28/97	11.11	141.56	0.00	ND	ND	ND	ND	ND	--	--	
	01/21/98	5.12	147.55	0.00	--	--	--	--	--	--	--	
	04/15/98	7.08	145.59	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	--	
	07/15/98	7.85	144.82	0.00	--	--	--	--	--	--	--	
	10/15/98	9.98	142.69	0.00	ND	ND	ND	ND	0.548	ND/ND ⁶	--	
	01/27/99	5.61	147.06	0.00	SAMPLED SEMI-ANNUALLY							
	04/22/99	7.21	145.46	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	--	
	07/22/99	9.58	143.09	0.00	--	--	--	--	--	--	--	
	10/20/99	9.85	142.82	0.00	ND	ND	ND	ND	ND	ND	--	
	01/05/00	11.10	141.57	0.00	--	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-9	04/06/00	7.35	145.32	0.00	ND	ND	ND	ND	ND	ND	--	
(cont)	07/21/00	10.20	142.47	0.00	--	--	--	--	--	--	--	
	10/30/00	11.73	140.94	0.00	ND	ND	ND	ND	ND	ND	--	
	01/24/01	10.30	142.37	0.00	--	--	--	--	--	--	--	
	04/25/01	8.27	144.40	0.00	ND	ND	ND	ND	0.598	ND	--	
	07/25/01	11.55	141.12	0.00	--	--	--	--	--	--	--	
	10/24/01	12.05	140.62	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	01/23/02	6.22	146.45	0.00	SAMPLER SEMI-ANNUALLY		--	--	--	--	--	
	04/24/02	8.26	144.41	0.00	<50	<0.50	1.1	<0.50	<0.50	<0.50	<2.5	
	07/24/02	9.74	142.93	0.00	--	--	--	--	--	--	--	
	10/18/02	11.77	140.90	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	02/03-04/03	8.26	144.41	0.00	SAMPLER SEMI-ANNUALLY		--	--	--	--	--	
	04/24/03	7.48	145.19	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ⁶	
	07/30/03	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--	
153.01	10/16/03	11.80	141.21	0.00	<50	<0.50	0.73	<0.50	1.2	<2.0/<2.0 ⁶	--	
	01/07/04	7.22	145.79	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
155.46	05/11/04	9.00	146.46	0.00	<50	<0.50	0.60	<0.50	<1.0	<0.50	--	
	08/05/04	10.60	144.86	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	11/02/04	11.10	144.36	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	02/17/05	7.68	147.78	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50 ⁶	--	
MW-10	11/15/89	--	--	--	ND	ND	ND	ND	ND	--	--	
	03/26/90	--	--	--	ND	ND	ND	ND	ND	--	--	
	06/06/90	--	--	--	ND	ND	ND	ND	ND	--	--	
	09/27/90	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/16/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	04/30/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/25/91	--	--	--	ND	ND	ND	ND	ND	--	--	

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1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-10	10/25/91	--	--	--	ND	ND	ND	ND	ND	--	--	
(cont)	01/30/92	INACCESSIBLE	--	--	--	--	--	--	--	--	--	
	04/30/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/22/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	10/14/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/13/93	--	--	--	ND	ND	ND	ND	ND	--	--	
152.71	04/12/93	7.22	145.49	0.00	ND	ND	ND	ND	ND	--	--	
	07/10/93	10.26	142.45	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	
152.43	10/12/93	13.48	138.95	0.00	ND	ND	ND	ND	ND	--	--	
	01/10/94	9.98	142.45	0.00	--	--	--	--	--	--	--	
	04/20/94	8.48	143.95	0.00	ND	ND	ND	ND	ND	--	--	
	07/14/94	10.15	142.28	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	
	10/18/94	12.50	139.93	0.00	ND	ND	ND	ND	ND	--	--	
	01/16/95	5.90	146.53	0.00	--	--	--	--	--	--	--	
	04/13/95	6.67	145.76	0.00	ND	ND	ND	ND	ND	--	--	
	07/20/95	8.70	143.73	0.00	--	--	--	--	--	--	--	
	10/17/95	10.88	141.55	0.00	ND	ND	ND	ND	ND	--	--	
	01/18/96	7.88	144.55	0.00	--	--	--	--	--	--	--	
	04/17/96	7.05	145.38	0.00	ND	ND	ND	ND	ND	--	--	
	07/18/96	8.67	143.76	0.00	--	--	--	--	--	--	--	
	10/18/96	10.41	142.02	0.00	ND	ND	ND	ND	ND	--	--	
	01/23/97	7.05	145.38	0.00	--	--	--	--	--	--	--	
	04/24/97	7.88	144.55	0.00	ND	ND	ND	ND	ND	--	--	
	07/24/97	9.56	142.87	0.00	--	--	--	--	--	--	--	
	10/27-28/97	10.88	141.55	0.00	ND	ND	ND	ND	ND	--	--	
	01/21/98	4.81	147.62	0.00	--	--	--	--	--	--	--	
	04/15/98	6.70	145.73	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	--	
	07/15/98	7.67	144.76	0.00	--	--	--	--	--	--	--	
	10/15/98	9.76	142.67	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	--	

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Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product							NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)	
MW-10	01/27/99	5.46	146.97	0.00	--	--	--	--	--	--	--	
(cont)	04/22/99	7.02	145.41	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	--	
	07/22/99	9.37	143.06	0.00	--	--	--	--	--	--	--	
	10/20/99	9.67	142.76	0.00	ND	ND	ND	ND	ND	ND	--	
	01/05/00	9.88	142.55	0.00	--	--	--	--	--	--	--	
	04/06/00	7.15	145.28	0.00	ND	ND	ND	ND	ND	ND	--	
	07/21/00	9.98	142.45	0.00	--	--	--	--	--	--	--	
	10/30/00	10.65	141.78	0.00	ND	ND	ND	ND	ND	ND	--	
	01/24/01	10.11	142.32	0.00	--	--	--	--	--	--	--	
	04/25/01	8.06	144.37	0.00	ND	ND	ND	ND	ND	ND	--	
	07/25/01	11.36	141.07	0.00	--	--	--	--	--	--	--	
	10/24/01	11.91	140.52	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	01/23/02	6.12	146.31	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	--	
	04/24/02	8.06	144.37	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	07/24/02	9.97	142.46	0.00	--	--	--	--	--	--	--	
	10/18/02	11.50	140.93	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	02/03-04/03	8.11	144.32	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	--	
		7.30	145.13	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ⁶	
	07/30/03	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--	
152.64	10/16/03	10.88	141.76	0.00	<50	<0.50	0.76	<0.50	1.2	<2.0/<2.0 ⁶	--	
	01/07/04	6.95	145.69	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
155.03	05/11/04	8.60	146.43	0.00	<50	0.61	1.1	0.66	2.6	<0.50	--	
	08/05/04	10.19	144.84	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	11/02/04	10.65	144.38	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	02/17/05	8.02	147.01	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50⁶	--	
MW-11	06/06/90	--	--	--	ND	ND	ND	ND	ND	--	--	
	09/27/90	--	--	--	ND	ND	ND	ND	ND	--	--	

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1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-11	01/16/91	--	--	--	ND	ND	ND	ND	ND	--	0.13	
(cont)	04/30/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/25/91	--	--	--	ND	0.39	ND	0.52	3.1	--	ND	
	10/25/91	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/30/92	--	--	--	ND	ND	ND	ND	ND	--	ND	
	04/30/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	07/22/92	--	--	--	ND	ND	ND	ND	ND	--	13	
	10/14/92	--	--	--	ND	ND	ND	ND	ND	--	--	
	01/13/93	--	--	--	ND	ND	ND	ND	ND	--	25	
151.99	04/12/93	5.98	146.01	0.00	ND	ND	ND	ND	ND	--	--	
	07/10/93	9.64	142.35	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	
151.37	10/12/93	12.51	138.86	0.00	ND	ND	ND	ND	ND	--	0.49	
	01/10/94	10.11	141.26	0.00	--	--	--	--	--	--	--	
	04/20/94	8.67	142.70	0.00	ND	ND	ND	ND	ND	--	0.28	
	07/14/94	11.94	139.43	0.00	--	--	--	--	--	--	--	
	10/18/94	14.58	136.79	0.00	ND	ND	ND	ND	1.4	--	ND	
	01/16/95	3.80	147.57	0.00	--	--	--	--	--	--	--	
	04/13/95	4.23	147.14	0.00	ND	ND	ND	ND	ND	--	ND	
	07/20/95	8.72	142.65	0.00	--	--	--	--	--	--	--	
	10/17/95	12.77	138.60	0.00	ND	ND	ND	ND	ND	-- ¹	ND	
	01/18/96	7.10	144.27	0.00	--	--	--	--	--	--	--	
	04/17/96	5.28	146.09	0.00	ND	ND	ND	ND	ND	--	0.47	
	07/18/96	8.95	142.42	0.00	--	--	--	--	--	--	--	
	10/18/96	12.37	139.00	0.00	ND	ND	ND	ND	ND	--	2.4	
	01/23/97	7.76	143.61	0.00	--	--	--	--	--	--	--	
	04/24/97	6.88	144.49	0.00	ND	ND	ND	ND	ND	--	ND	
	07/24/97	11.44	139.93	0.00	--	--	--	--	--	--	--	
	10/27-28/97	12.90	138.47	0.00	ND	ND	ND	ND	ND	--	ND	
	01/21/98	4.06	147.31	0.00	--	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product							NITRATES	
				Thickness (ft.)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	AS NO ³ (ug/L)	
MW-11	04/15/98	7.26	144.11	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	ND	
(cont)	07/15/98	7.06	144.31	0.00	SAMPLED SEMI-ANNUALLY	--	--	--	--	--	--	
	10/15/98 ⁷	11.54	139.83	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	ND	
	01/27/99	6.87	144.50	0.00	--	--	--	--	--	--	--	
	04/22/99	5.13	146.24	0.00	ND	ND	ND	ND	ND	ND/ND ⁶	ND	
	07/22/99	10.56	140.81	0.00	--	--	--	--	--	--	--	
	10/20/99	11.36	140.01	0.00	ND	ND	ND	ND	ND	ND	ND	
	01/05/00	11.60	139.77	0.00	--	--	--	--	--	--	--	
	04/06/00	5.93	145.44	0.00	ND	ND	ND	ND	ND	ND	ND	
	07/21/00	10.30	141.07	0.00	--	--	--	--	--	--	--	
	10/30/00	11.94	139.43	0.00	ND	ND	ND	ND	ND	ND	ND	
	01/24/01	10.42	140.95	0.00	--	--	--	--	--	--	--	
	04/25/01	8.29	143.08	0.00	ND	ND	ND	ND	ND	ND	ND	
	07/25/01	11.50	139.87	0.00	--	--	--	--	--	--	--	
151.37	10/24/01	13.70	137.67	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	01/23/02	5.49	145.88	0.00	--	--	--	--	--	--	--	
	04/24/02	6.74	144.63	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	07/24/02	11.07	140.30	0.00	--	--	--	--	--	--	--	
	10/18/02	13.24	138.13	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	
	02/03-04/03	5.47	145.90	0.00	SAMPLED SEMI-ANNUALLY	--	--	--	--	--	--	
	04/24/03	6.00	145.37	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ⁶	--	
	07/30/03	9.67	141.70	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0 ⁶	--	
	10/16/03	12.67	138.70	0.00	<50	<0.50	0.64	<0.50	0.97	<2.0/<2.0 ⁶	--	
	01/07/04	5.43	145.94	0.00	930	2.8	<0.50	<0.50	1.9	<0.50	--	
154.86	05/11/04	7.30	147.56	0.00	210	5.0	7.1	5.3	18	<0.50	--	
	08/05/04	11.40	143.46	0.00	<50	0.78	<0.50	<0.50	<0.50	<0.50	--	
	11/03/04	11.89	142.97	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
	02/17/05	6.48	148.38	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50 ⁶	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-12A												
156.61	05/11/04	11.36	145.25	0.00	<50	2.4	3.1	1.3	5.2	<0.50	--	
	08/05/04	13.80	142.81	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	11/02/04	14.28	142.33	0.00	<50	0.70	0.71	<0.50	<1.0	<0.50	--	
	02/17/05	10.16	146.45	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50⁶	--	
MW-12B												
156.54	05/11/04	12.43	144.11	0.00	<50	0.77	1.2	<0.50	2.0	<0.50	--	
	08/05/04	14.91	141.63	0.00	<50	0.69	0.63	<0.50	<1.0	<0.50	--	
	11/02/04	15.29	141.25	0.00	<50	0.65	<0.50	<0.50	<1.0	<0.50	--	
	02/17/05	11.20	145.34	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50⁶	--	
MW-13A												
155.48	05/11/04	10.70	144.78	0.00	<50	0.71	0.85	<0.50	1.9	<0.50	--	
	08/05/04	13.11	142.37	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	11/02/04	13.48	142.00	0.00	<50	0.65	<0.50	<0.50	<1.0	<0.50	--	
	02/17/05	9.46	146.02	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50⁶	--	
MW-13B												
155.49	05/11/04	11.20	144.29	0.00	<50	1.1	2.9	1.5	6.1	<0.50	--	
	08/05/04	13.61	141.88	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	11/02/04	13.92	141.57	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	02/17/05	9.97	145.52	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50⁶	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
MW-14A												
157.14	05/11/04	12.16	144.98	0.00	<50	0.98	1.7	1.3	5.1	10	--	
	08/05/04	14.75	142.39	0.00	<50	<0.50	<0.50	<0.50	<1.0	21	--	
	11/03/04	15.08	142.06	0.00	<50	<0.50	<0.50	<0.50	<1.0	22	--	
	02/17/05	10.93	146.21	0.00	<50	<0.50	<0.50	<0.50	<1.0	32⁶	--	
MW-14B												
157.05	05/11/04	12.85	144.20	0.00	<50	0.81	0.90	0.55	2.1	<0.50	--	
	08/05/04	15.25	141.80	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	11/03/04	15.62	141.43	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	02/17/05	11.51	145.54	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50⁶	--	
MW-15												
154.92	05/11/04	7.65	147.27	--	170	1.2	<0.50	<0.50	1.1	<0.50	--	
	08/05/04	11.55	143.37	--	<50	0.86	<0.50	<0.50	<1.0	<0.50	--	
	11/02/04	12.00	142.92	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	02/17/05	6.79	148.13	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50⁶	--	
Trip Blank												
TB-LB	01/21/98	--	--	--	ND	ND	ND	ND	ND	ND	ND	
	04/15/98	--	--	--	ND	ND	ND	ND	ND	ND	--	
	07/15/98	--	--	--	ND	ND	ND	ND	ND	ND	--	
	10/15/98	--	--	--	ND	ND	ND	ND	ND	2.79	--	
	01/27/99	--	--	--	ND	ND	ND	ND	ND	ND	--	
	04/22/99	--	--	--	ND	ND	ND	ND	ND	ND	--	
	07/22/99	--	--	--	ND	ND	ND	ND	ND	ND	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	NITRATES	
				Thickness (ft.)	TPHg (ug/L)						AS NO ³ (ug/L)	
TB-LB	10/20/99	--	--	--	ND	ND	ND	ND	ND	ND	--	
(cont)	01/05/00	--	--	--	ND	ND	ND	ND	ND	5.68	--	
	04/06/00	--	--	--	ND	ND	ND	ND	ND	ND	--	
	07/21/00	--	--	--	ND	ND	ND	ND	ND	ND	--	
	10/30/00	--	--	--	ND	ND	ND	ND	ND	ND	--	
	01/24/01	--	--	--	ND	ND	ND	ND	ND	ND	--	
	04/25/01	--	--	--	ND	ND	ND	ND	ND	ND	--	
	07/25/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	
	10/24/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	
	01/23/02 ²⁰	--	--	--	--	--	--	--	--	--	--	
	01/26/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	
	04/24/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	
QA	07/24/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	
	10/18/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	
	02/03-04/03	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	
	04/24/03	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.0	--	
	07/30/03	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.0	--	
	10/16/03	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.0	--	
	01/07/04	--	--	--	NA	NA	NA	NA	NA	NA	--	
	08/05/04	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	
	11/02/04	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	
	02/17/05	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to January 7, 2004, were compiled from reports prepared by Gettler-Ryan, Inc.

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

TPHg = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ug/L) = Micrograms per Liter

QA = Quality Assurance/Trip Blank

ND = Not Detected

-- = Not Measured/Not Analyzed

* TOC elevations for MW-9 & MW-10 were performed on August 27, 2003, by Virgil Chavez Land Surveying, using the following City Benchmark: being a brass disk in a monument well on the centerline of Santa Rosa Avenue, 210 feet south of Flower Avenue, (Benchmark Elevation = 147.895 feet, NGVD 29). TOC elevations are relative to msl, per the City of Santa Rosa Benchmark C-175, (Elevation = 157.23 feet, msl). Prior to October 12, 1993, the DTW measurements were taken from top of well cover.

** GWE corrected due to the presence of free product; correction factor: [(TOC - DTW) + (Product Thickness x 0.75)].

1 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.

2 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.

3 MTBE was ND. Detection limit was 1,000 ppb.

4 MTBE was ND. Detection limit was 500 ppb.

5 Detection limit raised. Refer to analytical reports.

6 MTBE by EPA Method 8260.

7 Nitrate/Nitrite was ND.

8 Skimmer present in well.

9 Laboratory indicates sample was re-run past hold time (May 10, 1999).

10 Laboratory report indicates gasoline and unidentified hydrocarbons <C6.

11 MTBE by EPA Method 8260 analyzed past hold time (August 11, 1999). Sample was originally analyzed within holding time on (August 5, 1999), however the quality control standard showed over-recovery. Sample contained a non-target compound which elutes in the same window as MTBE.

12 Laboratory report indicates gasoline C6-C12.

13 Skimmer not in well. Refer to field sheets.

14 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.

15 Laboratory report indicates weathered gasoline C6-C12.

16 Laboratory report indicates gas range.

17 Laboratory report indicates gas pattern.

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

EXPLANATIONS: (cont)

- ¹⁸ Laboratory report indicates early peaks.
- ¹⁹ Bailed 0.35 gallons of water + product.
- ²⁰ Samples were misplaced at the laboratory; analysis was not performed.
- ²¹ Bailed 0.25 gallons of water + product.
- ²² Bailed 0.50 gallons of water + product.
- ²³ Laboratory report indicates this sample was analyzed beyond the EPA recommended holding time.
- ²⁴ Laboratory report indicates discrete peak @ MTBE.
- ²⁵ Although sample contains compounds in the retention time range associated with gasoline, the chromatogram was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on gasoline.
- ²⁶ Weathered gasoline.

Table 2
Dissolved Oxygen Concentrations
Former Unocal Service Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-1	10/20/99	3.87	--
	01/05/00	3.95	--
	04/06/00	3.48	--
	07/21/00	2.11	--
	10/30/00	3.12	--
	01/24/01	1.91	--
	04/25/01	3.60	--
	07/25/01	3.30	--
	10/24/01	4.50	--
	01/23/02	3.20	--
	04/24/02	3.20	--
	07/24/02	3.60	--
	10/18/02	1.40	--
	02/03-04/03	1.00	0.80
	04/24/03	0.40	--
	07/30/03	1.77	--
	10/16/03	1.89	--
	01/08/04	--	5.54
	05/12/04	7.10	1.10
	08/05/04	3.3	7.0
	11/03/04	3.3	1.7
	02/17/05	5.2	1.0
MW-2	10/20/99 ¹	1.91	--
	01/05/00 ¹	2.18	--
	04/06/00 ¹	4.11	--
	07/21/00 ¹	1.92	--
	10/30/00 ¹	2.29	--
	01/24/01 ¹	2.96	--
	04/25/01 ¹	4.00	--
	07/25/01 ¹	6.40	--
	10/24/01 ¹	4.50	--
	01/23/02 ¹	4.90	--
	04/24/02 ¹	4.00	--
	07/24/02 ¹	3.10	--
	10/18/02	INACCESSIBLE - CAR PARKED OVER WELL	
	02/03-04/03 ¹	1.60	--
	04/24/03	0.80	--
	07/30/03 ¹	0.85	--
	10/16/03 ¹	0.64	--
	01/08/04	--	3.86
	05/12/04	4.00	1.00
	08/05/04	5.1	0.6
	11/03/04	2.6	0.9
	02/18/05	2.5	0.8

Table 2
Dissolved Oxygen Concentrations
Former Unocal Service Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-3	10/20/99	3.86	--
	01/05/00	3.44	--
	04/06/00	3.19	--
	07/21/00	2.01	--
MW-3	10/30/00	2.75	--
(cont)	01/24/01	2.03	--
	04/25/01	2.80	--
	07/25/01	2.40	--
	10/24/01	4.00	--
	01/23/02	2.80	--
	04/24/02	3.40	--
	07/24/02	3.30	--
	10/18/02	1.10	--
	02/03-04/03	0.10	--
	04/24/03	0.50	--
	07/30/03	1.12	--
	10/16/03	2.08	--
	01/08/04	--	6.06
	05/12/04	3.7	0.9
	08/05/04	2.4	0.7
	11/03/04	3.5	1.7
	02/17/05	4.3	1.3
MW-4	10/20/99	1.85	--
	01/05/00 ²	1.69	--
	04/06/00	4.22	--
	07/21/00	1.92	--
	10/30/00	1.67	--
	01/24/01	2.71	--
	04/25/01	3.70	--
	07/25/01	5.10	--
	10/24/01	NOT MEASURED DUE TO FREE PRODUCT	
	01/23/02	NOT MEASURED DUE TO FREE PRODUCT	
	04/24/02	NOT MEASURED DUE TO FREE PRODUCT	
	07/24/02	NOT MEASURED DUE TO FREE PRODUCT	
	10/18/02	NOT MEASURED DUE TO FREE PRODUCT	
	02/03-04/03	NOT MEASURED DUE TO FREE PRODUCT	
	04/24/03	NOT MEASURED DUE TO FREE PRODUCT	
	07/30/03	NOT MEASURED DUE TO FREE PRODUCT	
	10/16/03	0.51	--
	01/07/04	--	5.37
	05/12/04	3.90	0.70
	08/05/04	NOT MEASURED DUE TO FREE PRODUCT	
	11/03/04	4.10	0.30
	02/18/05	NOT MEASURED DUE TO FREE PRODUCT	

Table 2
Dissolved Oxygen Concentrations
Former Unocal Service Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-5	10/20/99	4.72	--
	01/05/00	4.65	--
	04/06/00	4.28	--
	07/21/00	3.51	--
	10/30/00	4.04	--
	01/24/01	3.29	--
	04/25/01	4.60	--
	07/25/01	2.90	--
MW-5	10/24/01	5.50	--
(cont)	01/23/02	4.40	--
	04/24/02	3.50	--
	07/24/02	4.10	--
	10/18/02	INACCESSIBLE - CAR PARKED OVER WELL	
	02/03-04/03	--	--
	04/24/03	0.30	--
	07/30/03	3.52	--
	10/16/03	3.67	--
	01/08/04	--	5.29
	05/12/04	3.2	0.7
	08/05/04	4.7	0.7
	11/03/04	4.5	0.4
	02/17/05	5.5	1.1
MW-6	10/20/99	4.77	--
	01/05/00	5.02	--
	04/06/00	3.92	--
	07/21/00	2.03	--
	10/30/00	3.25	--
	01/24/01	2.00	--
	04/25/01	4.20	--
	07/25/01	3.20	--
	10/24/01	5.70	--
	01/23/02	4.90	--
	04/24/02	3.80	--
	07/24/02	3.80	--
	10/18/02	0.80	--
	02/03-04/03	--	--
	04/24/03	0.70	--
	07/30/03	2.95	--
	10/16/03	4.57	--
	01/07/04	--	5.05
	05/11/04	6.90	6.70
	08/05/04	2.0	6.8
	11/03/04	8.6	8.6
	02/17/05	2.7	1.0

Table 2
Dissolved Oxygen Concentrations
Former Unocal Service Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-7	10/20/99	5.10	--
	01/05/00	4.98	--
	04/06/00	3.77	--
	07/21/00	2.01	--
	10/30/00	3.67	--
	01/24/01	1.71	--
	04/25/01	3.90	--
	07/25/01	3.10	--
	10/24/01	5.40	--
	01/23/02	5.10	--
	04/24/02	4.20	--
	07/24/02	3.60	--
MW-7	10/18/02	1.10	--
(cont)	02/03-04/03	--	--
	04/24/03	0.40	--
	07/30/03	3.87	--
	10/16/03	3.55	--
	01/07/04	--	4.79
	05/12/04	2.2	8.1
	08/05/04	4.1	5.6
	11/03/04	8.2	9.8
	02/17/05	4.0	1.5
MW-8	10/20/99	1.67	--
MW-8	01/05/00 ²	2.06	--
	04/06/00	4.33	--
	07/21/00	1.81	--
	10/30/00	2.31	--
	01/24/01	3.99	--
	04/25/01	4.40	--
	07/25/01	4.80	--
	10/24/01	4.30	--
	01/23/02	4.10	--
	04/24/02	3.80	--
	07/24/02	3.20	--
	10/18/02	1.20	--
	02/03-04/03	0.20	--
	04/24/03	0.50	--
	07/30/03	1.36	--
	10/16/03	0.93	--
	01/07/04	--	5.74
	05/12/04	6.0	3.0
	08/05/04	3.3	0.5
	11/03/04	3.9	0.9
	02/18/05	2.0	0.8

Table 2
Dissolved Oxygen Concentrations
Former Unocal Service Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-9			
	10/20/99	4.58	--
	01/05/00	4.73	--
	04/06/00	5.76	--
	07/21/00	4.44	--
	10/30/00	5.08	--
	01/24/01	4.04	--
	04/25/01	5.80	--
	07/25/01	4.70	--
	10/24/01	6.50	--
	01/23/02	5.70	--
	04/24/02	4.10	--
	07/24/02	3.40	--
	10/18/02	0.20	--
	02/03-04/03	--	--
	04/24/03	0.20	--
	07/30/03	INACCESSIBLE - PAVED OVER	--
MW-9	10/16/03	4.16	--
(cont)	01/07/04	--	8.60
	05/11/04	6.5	3.3
	08/05/04	5.1	2.6
	11/03/04	5.4	1.7
	02/17/05	7.0	3.7
MW-10			
	10/20/99	4.31	--
	01/05/00	4.75	--
	04/06/00	5.89	--
	07/21/00	4.59	--
	10/30/00	4.78	--
	01/24/01	4.18	--
	04/25/01	6.10	--
	07/25/01	5.10	--
	10/24/01	6.00	--
	01/23/02	5.50	--
	04/24/02	4.90	--
	07/24/02	3.20	--
	10/18/02	0.20	--
	02/03-04/03	--	--
	04/24/03	0.10	--
	07/30/03	INACCESSIBLE - PAVED OVER	--
	10/16/03	5.08	--
	01/07/04	--	7.62
	05/11/04	8.2	4.1
	08/05/04	5.0	2.9
	11/03/04	5.7	2.5
	02/17/05	6.0	4.2

Table 2
Dissolved Oxygen Concentrations
Former Unocal Service Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-11	10/20/99	5.19	--
	01/05/00	4.77	--
	04/06/00	3.41	--
	07/21/00	2.18	--
	10/30/00	3.58	--
	01/24/01	1.94	--
	04/25/01	3.90	--
	07/25/01	2.90	--
	10/24/01	5.80	--
	01/23/02	4.80	--
	04/24/02	3.60	--
	07/24/02	4.80	--
	10/18/02	1.10	--
	02/03-04/03	--	--
	04/24/03	0.30	--
	07/30/03	3.51	--
	10/16/03	3.71	--
	01/07/04	--	6.50
	05/12/04	2.8	0.6
	08/05/04	1.2	7.4
	11/03/04	8.0	8.4
	02/17/05	3.7	1.3
MW-12A	08/05/04	4.2	0.6
	11/03/04	7.9	0.8
	02/17/05	9.5	0.7
MW-12B	08/05/04	3.6	0.6
	11/03/04	3.9	3.5
	02/17/05	4.6	0.9
MW-13A	08/05/04	2.0	0.6
	11/03/04	4.2	0.4
	02/17/05	9.3	0.9
MW-13B	08/05/04	5.2	9.5
	11/03/04	3.6	1.1
	02/17/05	5.0	0.7
MW-14A	08/05/04	3.2	15.4
	11/03/04	7.2	9.1
	02/17/05	5.9	0.8
MW-14B	08/05/04	4.4	1.3
	11/03/04	3.7	1.0
	02/17/05	5.5	1.1

Table 2
Dissolved Oxygen Concentrations
Former Unocal Service Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-15	08/05/04	1.9	11.9
	11/03/04	3.4	5.8
	02/17/05	4.8	1.0

Table 2
Dissolved Oxygen Concentrations
Former Unocal Service Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

EXPLANATIONS:

(mg/L) = Milligrams per liter

-- = Not Measured

¹ Skimmer present in well.

² Skimmer not in well. Refer to field sheets.

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	ETHANOL (ug/L)	TBA (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-DCA (ug/L)
MW-1	04/15/98	ND	ND	45	ND	ND	ND	--
	07/15/98	ND	ND	13	ND	ND	ND	--
	10/15/98	ND ¹	ND ¹	14.8	ND ¹	ND ¹	ND ¹	--
	01/27/99	ND	ND	8.5	ND	ND	ND	--
	04/22/99	ND	ND	4.9	ND	ND	ND	--
	07/22/99 ³	ND	ND	10	ND	ND	ND	--
	04/24/03	--	<100	70	<2.0	<2.0	<2.0	--
	07/30/03	--	<100	86	<2.0	<2.0	<2.0	<2.0
	10/16/03	--	<100	21	<2.0	<2.0	<2.0	<2.0
	01/08/04	--	<5.0	4.2	<0.50	<0.50	<0.50	<0.50
	05/11/04	--	30	1.2	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	4.7	<0.50	<0.50	<0.50	<0.50
	11/03/04	--	<5.0	5.5	<0.50	<0.50	15	<0.50
	02/17/05	--	<5.0	1.4	<0.50	<0.50	<0.50	<0.50
MW-2	04/15/98	ND	ND	49	ND	ND	ND	--
	07/15/98	ND ¹	ND ¹	420	ND ¹	ND ¹	ND ¹	--
	10/15/98	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	--
	01/27/99	ND ¹	ND ¹	190	ND ¹	ND ¹	ND ¹	--
	04/22/99	ND ¹	ND ¹	270	ND ¹	ND ¹	ND ¹	--
	07/22/99 ³	ND ¹	ND ¹	340	ND ¹	ND ¹	ND ¹	--
	04/24/03	--	<5,000	<100	<100	<100	<100	--
	07/30/03	--	<5,000	220	<100	<100	<100	<100
	10/16/03	--	<4,000	86	<80	<80	<80	<80
	01/08/04	--	<100	330	<10	<10	<10	<10
	05/11/04	--	1,500	280	<25	<25	<25	<25
	08/05/04	--	<5.0	15	<0.50	<0.50	<0.50	<0.50
	11/03/04	--	<50	360	<5.0	<5.0	28	<5.0
	02/17/05	--	<250	100	<25	<25	<25	<25

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	ETHANOL (ug/L)	TBA (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-DCA (ug/L)
MW-3	04/15/98	ND	ND	ND	ND	ND	ND	--
	07/15/98	ND	ND	20	ND	ND	ND	--
	10/15/98	ND ¹	ND ¹	312	ND ¹	ND ¹	ND ¹	--
	01/27/99	ND	ND	19	ND	ND	ND	--
	04/22/99	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	--
	07/22/99 ³	ND ¹	ND ¹	220	ND ¹	ND ¹	ND ¹	--
	04/24/03	--	<500	<10	<10	<10	<10	--
	07/30/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	01/08/04	--	<5.0	29	<0.50	<0.50	<0.50	3.0
	05/11/04	--	110	39	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	76	<0.50	<0.50	2.5	2.8
	11/03/04	--	<5.0	53	<0.50	<0.50	3.8	1.9
	02/17/05	--	<5.0	7.3	<0.50	<0.50	<0.50	<0.50
MW-4	04/15/98	ND	ND	36	ND	ND	ND	--
	07/15/98	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	--
	10/15/98	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	--
	01/27/99	ND ¹	ND ¹	57	ND ¹	ND ¹	ND ¹	--
	04/22/99	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	--
	07/22/99 ³	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	--
	04/24/03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--	--
	07/30/03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--	--
	10/16/03	--	<10,000	<200	<200	<200	<200	<200
	01/07/04	--	<100	50	<10	<10	<10	<10
	05/11/04	--	2,600	12	<10	<10	<10	<10
	08/05/04	--	--	--	--	--	--	--
	11/02/04	--	--	--	--	--	--	--
	02/17/05	--	--	--	--	--	--	--

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	ETHANOL (ug/L)	TBA (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-DCA (ug/L)
MW-5	04/15/98	ND	ND	ND	ND	ND	ND	--
	10/15/98	ND	ND	ND	ND	ND	ND	--
	04/22/99 ²	ND	ND	ND	ND	ND	ND	--
	04/24/03	--	<100	<2.0	<2.0	<2.0	<2.0	--
	07/30/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	01/07/04	--	<5.0	0.80	<0.50	<0.50	<0.50	<0.50
	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	0.79	<0.50	<0.50	<0.50	<0.50
	11/03/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	04/15/98	ND	ND	ND	ND	ND	ND	--
	10/15/98	ND	ND	ND	ND	ND	ND	--
	04/22/99	ND	ND	ND	ND	ND	ND	--
	04/24/03	--	<100	<2.0	<2.0	<2.0	<2.0	--
	07/30/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	01/07/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	0.88
	08/05/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-7	11/03/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	04/15/98	ND	ND	ND	ND	ND	ND	--
	10/15/98	ND	ND	ND	ND	ND	ND	--
	04/22/99	ND	ND	ND	ND	ND	ND	--
	04/24/03	--	<100	<2.0	<2.0	<2.0	<2.0	--

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	ETHANOL (ug/L)	TBA (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-DCA (ug/L)
MW-7 (Cont.)	07/30/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	01/07/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	11/03/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-8	04/15/98	ND ¹	ND ¹	ND ¹	77	ND ¹	ND ¹	--
	07/15/98	ND	ND	ND	ND	ND	ND	--
	10/15/98	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	--
	01/27/99	ND	ND	ND	63	ND	ND	--
	04/22/99	ND ¹	ND ¹	71	ND ¹	ND ¹	ND ¹	--
	07/22/99 ³	ND ¹	ND ¹	ND ¹	85	ND ¹	ND ¹	--
	04/24/03	--	<2,000	<40	<40	<40	<40	--
	07/30/03	--	<500	<10	18	<10	<10	<10
	10/16/03	--	<1,000	<20	23	<20	<20	<20
	01/07/04	--	<25	<2.5	43	<2.5	<2.5	3.6
	05/11/04	--	450	<2.5	<2.5	<2.5	<2.5	<2.5
	08/05/04	--	<5.0	<0.50	33	<0.50	<0.50	<0.50
	11/03/04	--	<5.0	<0.50	33	<0.50	<0.50	<0.50
	02/17/05	--	<50	<5.0	24	<5.0	<5.0	<5.0
MW-9	04/15/98	ND	ND	ND	ND	ND	ND	--
	10/15/98	ND	ND	ND	ND	ND	ND	--
	04/22/99	ND	ND	ND	ND	ND	ND	--
	04/24/03	--	<100	<2.0	<2.0	<2.0	<2.0	--
	07/30/03	INACCESSIBLE - PAVED OVER		--	--	--	--	--

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	ETHANOL (ug/L)	TBA (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-DCA (ug/L)
MW-9 (Cont.)	10/16/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	01/07/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	11/02/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-10	04/15/98	ND	ND	ND	ND	ND	ND	--
	10/15/98	ND	ND	ND	ND	ND	ND	--
	04/22/99	ND	ND	ND	ND	ND	ND	--
	04/24/03	--	<100	<2.0	<2.0	<2.0	<2.0	--
	07/30/03	INACCESSIBLE - PAVED OVER		--	--	--	--	--
	10/16/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	01/07/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	11/02/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-11	04/15/98	ND	ND	ND	ND	ND	ND	--
	10/15/98	ND	ND	ND	ND	ND	ND	--
	04/22/99	ND	ND	ND	ND	ND	ND	--
	04/24/03	--	<100	<2.0	<2.0	<2.0	<2.0	--
	07/30/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/03	--	<100	<2.0	<2.0	<2.0	<2.0	<2.0
	01/07/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	ETHANOL (ug/L)	TBA (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-DCA (ug/L)
MW-11	11/03/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
(Cont.)	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-12A	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	13
	08/05/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	19
	11/02/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	14
	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	21
MW-12B	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	0.59
	11/02/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-13A	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	0.50
	08/05/04	--	<5.0	<0.50	0.70	<0.50	<0.50	0.61
	11/02/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	02/17/05	--	<5.0	<0.50	0.64	<0.50	<0.50	0.54
MW-13B	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	<0.50	0.53	<0.50	<0.50	<0.50
	11/02/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-14A	05/11/04	--	6.9	10	<0.50	<0.50	<0.50	4.2
	08/05/04	--	6.4	21	<0.50	<0.50	<0.50	9.4

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	ETHANOL (ug/L)	TBA (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-DCA (ug/L)
MW-14A	11/03/04	--	<5.0	22	<0.50	<0.50	<0.50	8.2
(Cont.)	02/17/05	--	<5.0	32	<0.50	<0.50	<0.50	14
MW-14B	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	11/03/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
MW-15	05/11/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	08/05/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	11/02/04	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	02/17/05	--	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Unocal Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

1,2 DCA = 1,2-Dichloroethane

(ug/L) = Micrograms per Liter

ND = Not Detected

-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

1 Detection limit raised. Refer to analytical reports.

2 Laboratory indicates sample was re-run past hold time (May 10, 1999).

3 MTBE by EPA Method 8260 analyzed past hold time (August 11, 1999). Sample was originally analyzed within holding time on (August 5, 1999), however the quality control standard showed over-recovery. Sample contained a non-target compound which elutes in the same window as MTBE.

Table 4
Groundwater Analytical Results
Former Unocal Service Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	TPH-D (ppb)	1,1-DCA* (ppb)	1,2-DCA* (ppb)	TOG (ppm)
MW-1	04/20/89	1,200	ND	ND	ND
	08/17/89	1,400	--	--	--
	11/15/89	1,200	1.1	4.1	2.0
	03/26/90	1,400	0.61	2.8	4.4
	06/06/90	4,300	ND	ND	35
	09/27/90	210	ND	1.9	ND
	01/16/91	ND	ND	2.5	ND
	04/30/91	110	ND	1.1	ND
	07/25/91	150	ND	3.1	ND
	10/25/91	230	ND	ND	ND
	01/30/92	220	ND	ND	ND
	04/30/92	200	ND	1.2	--
	07/22/92	250 ¹	ND	2.8	--
	10/14/92	250 ¹	ND	3.4	--
	01/13/93	190 ¹	ND	ND	--
	04/12/93	340 ²	ND	1.1	--
	07/10/93	71 ²	ND	ND	--
	10/12/93	1,200 ²	ND	ND	--
	01/10/94	--	ND	ND	--

EXPLANATIONS:

TPHd = Total Petroleum Hydrocarbons as Diesel

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

TOG = Total Oil and Grease

(ppb) = Parts per billion

(ppm) = Parts per million

ND = Not Detected

-- = Not Analyzed

¹ Laboratory report indicates the hydrocarbons detected did not appear to be diesel.

² Laboratory report indicates the hydrocarbons detected appear to be a diesel and non-diesel mixture.

* All EPA Method 8010 constituents were ND, except as indicated above.

Table 5
Groundwater Analytical Results - Dissolved Metals
Former Unocal Service Station No. 2672
1075 Santa Rosa Avenue
Santa Rosa, California

WELL ID	DATE	U (ug/L)	Cr (ug/L)	Pb (ug/L)	Mo (ug/L)	Se (ug/L)	V (ug/L)
MW-1	04/24/03	0.77	0.093	<0.10	<0.040	<0.10	<0.040
	05/11/04	5.7	<1.0	<5.0	8.1	<5.0	3.2
MW-2	04/24/03	0.29	<0.010	<0.10	<0.040	<0.10	<0.040
	05/11/04	4.9	<1.0	13	<2.0	<5.0	<3.0
MW-3	04/24/03	0.21	0.041	<0.10	<0.040	<0.10	<0.040
	05/11/04	14	<1.0	<5.0	3.8	<5.0	<3.0
MW-4	04/24/03	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--
	05/11/04	<1.0	<1.0	17	<2.0	<5.0	<3.0
MW-5	04/24/03	13.4	<0.010	<0.10	<0.040	<0.10	<0.040
	05/11/04	18	<1.0	<5.0	<2.0	<5.0	3.4
MW-6	04/24/03	0.63	0.015	<0.10	<0.040	<0.10	<0.040
	05/11/04	<1.0	<1.0	<5.0	<2.0	<5.0	4.0
MW-7	04/24/03	0.21	0.026	<0.10	<0.040	<0.10	<0.040
	05/11/04	5.6	<1.0	<5.0	<2.0	<5.0	6.6
MW-8	04/24/03	0.15	0.037	<0.10	<0.040	<0.10	<0.040
	05/11/04	5.6	<1.0	14	<2.0	<5.0	<3.0

EXPLANATIONS:

Cr = Chromium

Mo = Molybdenum

Pb = Lead

Se = Selenium

V = Vanadium

U = Uranium

(ug/L) = Micrograms per Liter

-- = Not Analyzed

ANALYTICAL METHODS:

Dissolved Metals by EPA 200 Series

Uranium by EPA Method 908.0

ATTACHMENT A

FIELD METHODS AND PROCEDURES

FIELD METHODS AND PROCEDURES

The following section describes field procedures that are to be used by ENSR personnel in the performance of the tasks involved with this project.

1. HEALTH AND SAFETY PLAN

Fieldwork performed by ENSR and ENSR's subcontractors at the site will be conducted according to guidelines established in a Health and Safety Plan (HASP). The HASP is a document that describes the hazards that may be encountered in the field and specifies protective equipment, work procedures and emergency information. A copy of the HASP will be at the site and available for reference by appropriate parties during work at the site.

2. GROUNDWATER DEPTH ASSESSMENT

A water/product interface probe is used to assess the liquid-phase hydrocarbons (LPH) thickness, if present, and a water level indicator is used to measure the groundwater depth in monitoring wells that do not contain LPH. Depth to groundwater or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for LPH sheen.

3. SUBJECTIVE ANALYSIS OF GROUNDWATER

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

4. MONITORING WELL SAMPLING

Monitoring wells are purged using a pump or bailer until pH, temperature and conductivity of the purge water has stabilized and a minimum of three well volumes of water has been removed. The purge water is placed in 55-gallon drums and temporarily stored on-site pending evaluation of disposal options. If three well volumes cannot be removed in one-half an hour's time, the well is allowed to recharge to 80 percent of original level. After recharging, a groundwater sample is then removed from each of the wells using a pump or disposable bailer. The water sample is collected, labeled and handled according to the Quality Assurance Plan. Water generated during the monitoring event is disposed of according to the accepted regulatory method pertaining to the site.

5. QUALITY ASSURANCE PLAN

This section describes the field and analytical procedures to be followed by ENSR throughout the investigation.

5.1 General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample will be collected in the appropriate container, preserved correctly for the intended analysis and stored, prior to analysis, for no longer than the maximum allowable holding time.

Details on the procedures for collection and handling of soil samples from this project can be found in previous sections.

5.2 Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures ensure sample integrity and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis will have a label affixed to identify the job number, sampler, date and time of sample collection and a sample number unique to that sample. During soil sampling, this information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel and any other pertinent field observations will be recorded on the borehole log or in the field records.

ATTACHMENT B

GROUNDWATER SAMPLING INFORMATION DATA



GROUNDWATER/LIQUID LEVEL DATA (Page 1 of 2)
(measurements in feet below TOC)

Site: 1075 Santa Rosa Ave., Santa Rosa, CA

ENSR No. 06940-268-100

Unocal No. 2672

Date: 2/17/05

Recorded by: Tanya Ahuja

SAMPLING ORDER / WELL NO.	TIME OPENED	CGI	PID	D#	TIME MEASURED	DEPTH TO GR. WATER	MEASURED TOTAL DEPTH	DEPTH TO PRODUCT	PRODUCT THICKNESS	COMMENTS (TOC/TOB) (PRODUCT SKIMMER IN WELL)
1 MW-9	0915	N/A	N/A	19A	0921	7.68	24.24	2	0	
2 MW-10	0914			19A	0922	8.02	24.25	2	0	
3 MW-12A	0655			19A	0800	10.16	54.80	2	0	
4 MW-12B	0655			19A	0803	11.20	84.79	2	0	
5 MW-13A	0659			19A	0807	9.46	54.71	2	0	
6 MW-13B	0659			19A	0808	9.97	84.44	2	0	
7 MW-15	0704			19A	0812	6.79	19.94	2	2	
8 MW-14A	0708			19A	0809	16.93	54.99	2	2	
9 MW-14B	0708			19A	0810	11.51	84.98	2	0	

Notes:



GROUNDWATER/LIQUID LEVEL DATA (Page 2 of 2)
(measurements in feet below TOC)

Site: 1075 Santa Rosa Ave., Santa Rosa, CA 94503

ENSR No. 06940-268-100

Unocal No. 2672

DTH

Date: 2/17/05

Recorded by: Tanya Ahuja

SAMPLING ORDER / WELL NO.	TIME OPENED	CGI	PID	D.O. 00	TIME MEASURED	DEPTH TO GR. WATER	MEASURED TOTAL DEPTH	DEPTH TO PRODUCT	PRODUCT THICKNESS	COMMENTS (TOC/TOB) (PRODUCT SKIMMER IN WELL)
10 MW-7	0712	N/A	N/A	N/A	0813	8.02	23.30			
11 MW-6	0714				0814	7.91	22.90			
12 MW-11	0717				0815	6.48	23.05			
13 MW-5	0718				0821	8.20	29.80			
14 MW-3	0720				0823	8.49	33.45			
15 MW-1	0722				0823	9.03	34.10			
16 MW-8	0725				0825	8.65	26.70			
17 MW-2	0723				0827	8.93	34.15			
18 MW-4	0728						29.50			DO NOT SAMPLE IF FP PRESENT

Notes:



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well/Piezo ID: MW-2

Well Piezometer

Well Purging:

Date Purged: 2/18/05

Purge Method: Disposable bailer/other 2" Grunfos

Field Tech(s): Tanya Ahuja

Weather Conditions: Rainy wet 50's

Casing Material: PVC

Well Diameter: 2.00 in.

Total Depth: 34.15 ft from TOC

Depth to Water: 8.93 ft from TOC

Water Column: 25.22 ft.

Water Column Volume: 7.0 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(13.97)

80% Recovery from TOC: = Total Depth - (Water Column X .8) =

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0832	0	1.5	2.5	-12	19.9	1099	6.5	920	muddy	
0834	1	5.5	1.3	-21	19.8	103	6.5	120		
0836	2	9.5	0.8	-22	19.9	106	6.4	54		
0838	3									
	4									

Sample Collection: 2/18/05

Date Sampled: 2/18/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW2	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	0838
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metals (Chromium, Vanadium, Selenium, Lead, Molybdenum)	
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metal (Uranium)	
				NOTE Sample for Dissolved Metals Annually (April Only)	

Comments

01 (8.6)

Signature: Tanya Ahuja

Date: 2/18/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
ENSR No. 06940-268-100
Unocal No. 2672

Well/Piezo ID: MW-3

Well Piezometer

Well Purging:

Date Purged: 2/17/05

Purge Method: Disposable bailer/other

Field Tech(s): Tanya Shoua

Weather Conditions: overcast low 50s

Casing Material:

PVC

2.00 in.

Total Depth:

2.00 in.
33.45 ft from TOC

Total Depth:
Depth to Water:

3

Depth to Water:

Water Column:

24.96 ft.

Volume	$3/4'' = .02$	$1'' = .04$	$2'' = .16$	$3'' = .38$
Factor (VF)	$4'' = .66$	$5'' = 1.02$	$6'' = 1.50$	$12'' = 5.80$

(13.48)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 9.28

Sample Collection:

Date Sampled: 2/17/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW 3	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1720
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metals (Chromium, Vanadium, Selenium, Lead, Molybdenum)	
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metal (Uranium)	
				NOTE Sample for Dissolved Metals Annually (April Only)	

Comments

vol 11.9

Symptoms

Signature Tanya L. Choncup

Date 2/17/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well Purging: 2/18/05

Date Purged: 2/18/05

Purge Method: Disposable bailer/other _____

Casing Material: PVC

Well Diameter: 2.00 in.

Total Depth: 29.50 ft from TOC

Depth to Water: _____ ft from TOC

Water Column: _____ ft.

Water Column Volume: _____ gal (WC X VF)

Well/Piezo ID: **MW-4**

Well Piezometer

Field Tech(s): Tanya Ahoual

Weather Conditions: _____

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

NO SAMPLE Product Present

Sample Collection:

Date Sampled: 2/18/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW4	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metals (Chromium, Vanadium, Selenium, Lead, Molybdenum)	
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metal (Uranium)	
				NOTE Sample for Dissolved Metals Annually (April Only)	

Comments DO NOT SAMPLE WELL IF FREE PRODUCT IS PRESENT

Signature Tanya J Ahoual

Date 2/18/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well/Piezo ID: MW-5

Well Piezometer

Well Purging: 2/17/05

Date Purged:

Purge Method: Disposable bailer/other 2" burlap

Field Tech(s): Tanya Ahuja

Weather Conditions: overcast low 50's Rainy

Casing Material: PUC

Well Diameter: 2.00 in.

Total Depth: 29.80 ft from TOC

Depth to Water: 8.20 ft from TOC

Water Column: 21.60 ft.

Water Column Volume: 3.4 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(12.52)

80% Recovery from TOC: = Total Depth - (Water Column X .8) =

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1600	0	1.5	55	242	19.5	0.120	6.6	69		
1602	1	4.9	2.2	272	19.8	0.118	6.5	29		
1604	2	8.3	1.6	298	20.0	0.120	6.5	7		
1606	3	11.7	1.1	303	20.3	0.123	6.5	14		
	4									

Sample Collection:

Date Sampled: 2/17/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-5	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1614
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metals (Chromium, Vanadium, Selenium, Lead, Molybdenum)	
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metal (Uranium)	
				NOTE Sample for Dissolved Metals Annually (April Only)	

Comments

vol (10.3)

Signature Tanya Ahuja

Date 2/17/05

ENSR

GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well Purgings:

Date Purged: 2/11/05

Purge Method: Disposable bailer/other 2" buna fcs

Casing Material: PVC

Well Diameter: 2.00 in.

Total Depth: 22.90 ft from TOC

Depth to Water: 7.91 ~~0.48~~ ft from TOC

Water Column: 14.99 ~~16.57~~ ft.

Water Column Volume: 2.3 ~~2.6~~ gal (WC X VF)

Well/Piezo ID: **MW-6**

Well Piezometer

Field Tech(s): Tanya Thomas

Weather Conditions: Raining wet

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

10.9

C9.79

922

80% Recovery from TOC: = Total Depth - (Water Column X .8) =

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1445	0 1.9	2.7	1210	18.9	61.4	6.7	18	clear Blackish		
1446	1 4.5	1.2	153	18.5	63.9	6.0	17			
1447	2 6.8	1.0	154	18.5	64.5	6.0	13			
1448	3 9.1	1.0	153	18.0	65.0	6.0	13			
	4									

Sample Collection:

Date Sampled: 2/17/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW 6	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	<u>14:54</u>
	4	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metals (Chromium, Vanadium, Selenium, Lead, Molybdenum)	
	1	1 Liter Poly	Ice	(APRIL ONLY) Dissolved metal (Uranium)	
				NOTE Sample for Dissolved Metals Annually (April Only)	

Comments MW-6 Locked in parking lot, need to contact 2nd floor occupant for access

Signature Tanya Thomas

Date 2/17/05

Vol (2.9)



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
ENSR No. 06940-268-100
Unocal No. 2672

Well Purging:

Date Purged: 2/1/05

Purge Method: Disposable bailer/other

Casing Material:

PUR Plant

Casing Material: Steel Well Diameter: 3.00 in.

Total Depth: 23.30 ft from TOC

Total Depth:
Depth to Water:

23.30 ft f

Depth to Water: 5.62 ft from top
Water Column: 15.28 ft.

Well/Piezo ID: MW-7

Well Piezometer

Field Tech(s): Tanya Ahuja

Weather Conditions: rainy wet 50's

Volume	$3\frac{1}{4}'' = .02$	$1'' = .04$	$2'' = .16$	$3'' = .38$
Factor (VF)	$4'' = .66$	$5'' = 1.02$	$6'' = 1.50$	$12'' = 5.80$

Chit 1167

$$80\% \text{ Recovery from TOC: } \text{Total Depth} - (\text{Water Column} \times .8) = 11.04 \text{ ft}$$

Sample Collection:

Date Sampled: 2/17/05

Sampling Method: Disposable Bailer/Other Ban Lee

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1434
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metals (Chromium, Vanadium, Selenium, Lead, Molybdenum)	
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metal (Uranium)	
NOTE Sample for Dissolved Metals Annually (April Only)					

Comments

Vol (7.3)

Signature

James J. Ahern

Date 2/17/05

ENSR**GROUNDWATER SAMPLING DATA SHEET**

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well/Piezo ID: MW-8

Well Piezometer

Well Purging:

Date Purged: 2/18/05

Purge Method: Disposable bailer/other 2" Gruntos

Casing Material: PUC

Well Diameter: 2.00 in.

Total Depth: 26.70 ft from TOC

Depth to Water: 8.05 ft from TOC

Water Column: 18.05 ft.

Water Column Volume: 2.88 gal (WC X VF)

Field Tech(s): Tanya Ahoual

Weather Conditions: Rainy 50°

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(12.26)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0810	0	1.8	-10	20.1	1.103	6.4	37	clear		
0812	1	1.8	-11	19.9	1.104	6.3	6			
0814	2	8.0	-19	20.1	1.106	6.3	6			
0815	3	1.8	-28	20.4	1.110	6.3	4			
	4									

Sample Collection:

Date Sampled: 2/18/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-8	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	826
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metals (Chromium, Vanadium, Selenium, Lead, Molybdenum)	
APRIL ONLY	1	1-Liter Poly	Ice	(APRIL ONLY) Dissolved metal (Uranium)	
				NOTE Sample for Dissolved Metals Annually (April Only)	

Comments _____

(8.6)

Signature Tanya J Ahoual

Date 2/18/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well Purging: 2/17/05

Date Purged: 2/17/05

Purge Method: Disposable bailer/other 2" boro rbs

Casing Material: PVC

Well Diameter: 2.00 in.

Total Depth: 24.24 ft from TOC

Depth to Water: 7.68 ft from TOC

Water Column: ft.

Water Column Volume: 2.6 gal (WC X VF)

Well/Piezo ID: **MW-9**

Well Piezometer

Field Tech(s): Tanya Ahnaf

Weather Conditions: Sunny Skattered clouds 70's

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0935	0 2.0	7.0	208	17.5	68.4	8.4	160			
0937	1 5.0	7.8	203	17.3	68.1	8.5	50			
0939	2 7.0	7.0	195	17.4	68.1	8.5	15			
0940	3 9.0	3.7	189	17.3	67.7	8.5	8			
	4									

Sample Collection:

Date Sampled: 2/17/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW9	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	0945

Comments DO NOT SAMPLE FOR METALS--EVER

Vol C)

Signature Tanya Z Ahnaf

Date 2/17/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well Purgung: 2/17/05Date Purged: 2/17/05Purge Method: Disposable bailer/other 2" Brunfels

Well/Piezo ID: MW-10

Well Piezometer Field Tech(s): Tanya AhoualWeather Conditions: Overcast clouds 60°Casing Material: PVCWell Diameter: 2.00 in.Total Depth: 24.25 ft from TOCDepth to Water: 7.67 ft from TOCWater Column: 16.23 ft.Water Column Volume: 2.5 gal (WC X VF)

Volume	$3/4" = 0.02$	$1" = 0.04$	$2" = .16$	$3" = .38$
Factor (VF)	$4" = .66$	$5" = 1.02$	$6" = 1.50$	$12" = 5.80$

(11.24)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 8.02

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0957	0	1.0	294	18.7	56.7	6.5	77	milky		
0959	1	3.5	294	18.6	56.8	6.7	23	clear		
1001	2	6.0	289	18.7	57.0	6.4	2318	clear		
1003	3	8.5	284	18.7	57.0	6.4	14	clear		
	4									

Sample Collection:

Date Sampled: 2/17/05Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW10	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1008

Comments DO NOT SAMPLE FOR METALS--EVER

Vol (7.7)

Signature Tanya Ahoual Date 2/17/05

ENSR**GROUNDWATER SAMPLING DATA SHEET**

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well Purging: 2/11/05Date Purged: 2/11/05Purge Method: Disposable bailer/other 2" boro glassCasing Material: PVCWell Diameter: 2.00 in.Total Depth: 23.05 ft from TOCDepth to Water: 6.48 ft from TOCWater Column: 16.57 ft.Water Column Volume: 2.6 gal (WC X VF)Well/Piezo ID: **MW-11**Well Piezometer Field Tech(s): Tanya AhujaWeather Conditions: Rainy wet 50's

Volume	3/4" = .02	1" = .04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 6.60 @ 1514

(9.79)

6.60 @ 1514

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1504	0	1.7	35	18.4	92.6	6.3	1			
1506	1	4.1	19	18.1	87.6	6.3	0			
1508	2	8.7	10	18.0	84.8	6.3	0			
1510	3	9.3	8	18.0	83.4	6.2	0			
	4									

Sample Collection:

Date Sampled: 2/11/05

Sampling Method: Disposable Bailer/Other

Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-11	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1516

Comments DO NOT SAMPLE FOR METALS--EVER

Vol (7.9)

Signature Tanya AhujaDate 2/11/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well Purging: 2/17/05

Date Purged: 2/17/05
 Purge Method: Disposable bailer/other

Casing Material: PVC

Well Diameter: 2.00 in.

Total Depth: 54.80 ft from TOC

Depth to Water: 10.16 ft from TOC

Water Column: 44.64 ft.

Water Column Volume: 7.1 gal (WC X VF)

Well/Piezo ID: **MW-12A**

Well Piezometer

Field Tech(s): Tanya Ahoval

Weather Conditions: Overcast 60's

Volume	3/4" = 0.02	1" = 0.04	(2" = .16)	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(14.08 >

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 10.17 @ 1051

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1041	0 3.0	9.5	362	20.1	82.2	6.7	10	clear		
1044	1 7.0	7.6	379	19.8	85.0	6.5	8	clear		
1047	2 14.0	0.7	320	19.8	85.9	6.4	6	11 "		
1050	3 22.0	0.7	314	19.8	85.9	6.9	9	11 "		
	4									

Sample Collection:

Date Sampled: 2/17/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-12A	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1053

Comments DO NOT SAMPLE FOR METALS--EVER

Vol (21.5)

Signature Tanya Ahoval Date 2/17/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well/Piez ID: MW-12B

Well Piezometer

Well Purging: 2/17/05

Date Purged:

Purge Method: Disposable bailer/other 100 ml pump

Field Tech(s): Tanya Ahoual

Weather Conditions: overcast low 60's

Casing Material: PVC

Well Diameter: 2.00 in.

Total Depth: 84.79 ft from TOC

Depth to Water: 11.2 ft from TOC

Water Column: 73.89 ft.

Water Column Volume: 11.77 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .06	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(25.91)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 15.80 @ 1116

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1059	0	1.0	278	20.3	64.7	7.1	15.0	clear		
1104	1	1.3	283	19.5	64.8	6.7	31	clear		
1110	2	25.0	248	19.6	64.5	6.7	22	clear		
1115	3	37.0	264	19.6	62.9	6.4	27	clear		
	4									

Sample Collection:

Date Sampled: 2/17/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW12B	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1/124

Comments DO NOT SAMPLE FOR METALS--EVER

(35, 32)

Signature Tanya J Ahoual

Date 2/17/05

ENSR**GROUNDWATER SAMPLING DATA SHEET**

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well Purging:Date Purged: 2/17/05Purge Method: Disposable bailer/other 2" GravitecCasing Material: PVCWell Diameter: 2.00 in.Total Depth: 54.71 ft from TOCDepth to Water: 9.46 ft from TOCWater Column: 45.25 ft.Water Column Volume: 7.2 gal (WC X VF)Well/Piezo ID: **MW-13A**Well Piezometer Field Tech(s): Tanya AhnauWeather Conditions: overcast & windy

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

18.5180% Recovery from TOC: = Total Depth - (Water Column X .8) = 69.51 @ 1213

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1203	0	9.3	346	20.3	660.8	7.1	110			
1204	1	7.5	348	20.2	660.7	7.0	100			
1208	2	14.0	342	20.0	699.5	7.0	≤ 70			
1212	3	22.0	0.9	19.9	688.5	6.9	350			
	4									

Sample Collection:Date Sampled: 2/17/05Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW13A	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1/214

Comments DO NOT SAMPLE FOR METALS—EVERvol C=17Signature Tanya Ahnau Date 2/17/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well/Piezo ID: MW-13B

Well Piezometer

Well Purging: 2/17/05

Field Tech(s): Tanya Ahoual

Date Purged:

Purge Method: Disposable bailer/other 2" Gruntis pump

Weather Conditions: overcast cold low 60's mid 50's

Casing Material: PVC

Well Diameter: 2.00 in.

Total Depth: 84.44 ft from TOC

Depth to Water: 79.7 ft from TOC

Water Column: 74.47 ft.

Water Column Volume: 11.91 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(24.86)

80% Recovery from TOC: = Total Depth - (Water Column X .8) =

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1222	0 2.0	5.0	320	20.7	68.3	7.3	0.1	Clear		
1227	1 12.0	1.0	305	20.5	68.1	7.2	178			
1232	2 24.0	0.9	290	20.1	68.0	7.2	220			
1237	3 36.0	0.9	278	20.0	68.3	7.1	over 1000			
	4									

Sample Collection:

Date Sampled: 2/17/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW13b	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1246

Comments DO NOT SAMPLE FOR METALS--EVER

Vol (36)

Signature Tanya J Ahoual Date 2/17/05

ENSR**GROUNDWATER SAMPLING DATA SHEET**

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well Purgings:

Date Purged: 2/17/05Purge Method: Disposable bailer/other 2" GruntosCasing Material: PVCWell Diameter: 2.00 in.Total Depth: 54.99 ft from TOCDepth to Water: 10.93 ft from TOCWater Column: 44.06 ft.Water Column Volume: 7.0 gal (WC X VF)Well/Piezo ID: **MW-14A**Well Piezometer Field Tech(s): Tanya AhoualWeather Conditions: Overcast Low 60's

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(19:74)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 11.71

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1321	0	5.9	61	20.1	93.3	6.8	12			
1320	1	9.0	3.5	20.2	93.1	6.8	16			
1323	2	11.0	1.5	20.4	92.7	6.7	12			
1336	3	23.0	0.8	20.4	92.6	6.7	12			
	4									

Sample Collection:

Date Sampled: 2/17/05Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW14A	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1341

Comments DO NOT SAMPLE FOR METALS--EVER

vol (21.1)

Signature Tanya J AhoualDate 2/17/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
ENSR No. 06940-268-100
Unocal No. 2672

Well Purging: 21 105
Date Purged:

Date Purged: ,

Purge Method: Disposable bailer/

Casing Material: PCU

Well Diameter: 2.00 in.

Total Depth: 84.98 ft from TOC

Depth to Water: 11.51 ft from TOC

Depth to Water: _____ ft
Water Column: _____ ft

Water Column Volume: 117 g

Well/Piezo ID: MW-14B

Well Piezometer

Weather Conditions:

Tanya floural

Volume	$3/4 = .002$	$1^* = .04$	$2^* = .16$	$3^* = .38$
Factor (VF)	$4^* = .66$	$5^* = 1.02$	$6^* = 1.50$	$12^* = 5.80$

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 12.01

Sample Collection:

Date Sampled: 2/ 105

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW 14b	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1405

Comments DO NOT SAMPLE FOR METALS--EVER

Vol (35.2)

Signature Sanya Lahonata

Date 2/10/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672

Well Purging: 2/17/05

Date Purged:

Purge Method: Disposable bailer/other 2" burlapCasing Material: PVCWell Diameter: 2.00 in.Total Depth: 19.94 ft from TOCDepth to Water: 16.79 ft from TOCWater Column: 13.15 ft.Water Column Volume: 2.1 gal (WC X VF)Well/Piezo ID: **MW-15**Well Piezometer Field Tech(s): Tanya AhoualWeather Conditions: overcast drizzle

Volume	$3/4" = 0.02$	$1" = 0.04$	$2" = .16$	$3" = .38$
Factor (VF)	$4" = .66$	$5" = 1.02$	$6" = 1.50$	$12" = 5.80$

(9.42)80% Recovery from TOC: = Total Depth - (Water Column X .8) = 7.41

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1301	0	1.0	48	18.3	70.1	6.4	160			
1302	1	2.2	2.8	18.0	70.1	6.4	170			
1304	2	1.3	1.1	18.2	70.0	6.3	180			
1306	3	6.4	1.0	18.2	70.2	6.2	180			
	4									

Sample Collection:

Date Sampled: 2/17/05Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW15	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8260), 5-Oxys (8260), 1,2-DCA (8260)	1311

Comments DO NOT SAMPLE FOR METALS--EVERSignature: Tanya Ahoual Date 2/17/05vol (6.3)

ATTACHMENT C

**LABORATORY ANALYTICAL RESULTS WITH
CHAIN-OF-CUSTODY DOCUMENTATION**

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

February 25, 2005

CLS Work Order #: COB0659
COC #:

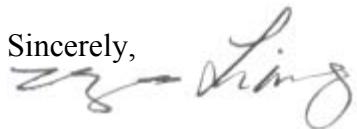
Dave Peacock
ENSR - Alameda.
1420 Harbor Bay Parkway , Suite 120
Alameda, CA 94502

Project Name: FormerUnocal2672,1075
SantaRosaAve.,SantaRosa,CA

Enclosed are the results of analyses for samples received by the laboratory on 02/18/05 16:35.
Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved
methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233



CHAIN OF CUSTODY

2080659

Page 1 of 1

Lab: CLS

TAT: Standard

Report results to:

Name David Peacock
 Company ENSR
 Mailing Address 10411 Old Placerville Road, Suite 210
 City, State, Zip Sacramento, CA 95827-2508
 Telephone No. 916-362-7100
 Fax No. 916-362-8100

Project Information

Site Address: 1075 Santa Rosa Ave., Santa Rosa, CA 94503
 ENSR No. 06940-268-100
 Unocal No. 2672
 Global ID No. T0609700603

Special instructions and/or specific regulatory requirements:

METALS: Second Quarter

Sample Identification	Date Sampled	Time Sampled	Matrix/ Media	No. of Conts.	Analyses Requested							Preservative	
					TPHg 8015	BTEX 8260	5-OxyS, TBA, MIBE, DIPE 8260	ETBE, TAME, 1,2-DCA 8260	Chromium, Vanadium, Selenium	Lead, Molybdenum	Uranium		
MW-1	2/17/05	1734	GW	3	X	X	X	X					Ice/HCL
MW-2	2/18/05	0838	GW	3	X	X	X	X					Ice/HCL
MW-3	2/17/05	1720	GW	3	X	X	X	X					Ice/HCL
MW-4	2/18/05		GW	3	X	X	X	X					Ice/HCL
MW-5	2/17/05	1614	GW	3	X	X	X	X					Ice/HCL
MW-6	2/17/05	1454	GW	3	X	X	X	X					Ice/HCL
MW-7	2/17/05	1434	GW	3	X	X	X	X					Ice/HCL
MW-8	2/18/05	0820	GW	3	X	X	X	X					Ice/HCL
MW-9	2/17/05	0945	GW	3	X	X	X	X					Ice/HCL
MW-10	2/17/05	1008	GW	3	X	X	X	X					Ice/HCL
MW-11	2/17/05	1514	GW	3	X	X	X	X					Ice/HCL
MW-12A	2/17/05	1053	GW	3	X	X	X	X					Ice/HCL
MW-12B	2/17/05	1124	GW	3	X	X	X	X					Ice/HCL
MW-13A	2/17/05	1214	GW	3	X	X	X	X					Ice/HCL
MW-13B	2/17/05	1246	GW	3	X	X	X	X					Ice/HCL
MW-14A	2/17/05	1341	GW	3	X	X	X	X					Ice/HCL
MW-14B	2/17/05	1405	GW	3	X	X	X	X					Ice/HCL
MW-15	2/17/05	1311	GW	3	X	X	X	X					Ice/HCL
QA	1/25/05	1200	Liquid	2	X	X							Ice/HCL

Collected by: Jayce Ahoua Date/Time 2/17/05 0:00 Collector's Signature: Jayce Ahoua Date/Time 2/17/05 17:36
 Relinquished by: Jayce Ahoua Date/Time 2/18/05 16:33 Received by: Jayce Ahoua Date/Time 2/18/05 16:33
 Relinquished by: _____ Date/Time _____ Received by: Jayce Ahoua Date/Time 2/18/05 16:35
 Method of Shipment: _____ Sample Condition on Rcpt: _____

*

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

ENSR - Alameda.
1420 Harbor Bay Parkway , Suite 120
Alameda, CA 94502

Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
CLS Work Order #: COB0659
Project Number: 06940-268-100
Project Manager: Dave Peacock
COC #:

TPH-Gasoline by GC FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (COB0659-01) Water Sampled: 02/17/05 17:36 Received: 02/18/05 16:35									
Gasoline	160	50	µg/L	1	CO01406	02/22/05	02/22/05	EPA 8015M	GC-25
Surrogate: o-Chlorotoluene (Gas) 97.0 % 65-135 " " " "									
MW-2 (COB0659-02) Water Sampled: 02/18/05 08:38 Received: 02/18/05 16:35									
Gasoline	22000	500	µg/L	10	CO01406	02/22/05	02/22/05	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas) 93.0 % 65-135 " " " "									
MW-3 (COB0659-03) Water Sampled: 02/17/05 17:20 Received: 02/18/05 16:35									
Gasoline	1100	50	µg/L	1	CO01406	02/22/05	02/22/05	EPA 8015M	GC-25
Surrogate: o-Chlorotoluene (Gas) 99.0 % 65-135 " " " "									
MW-5 (COB0659-04) Water Sampled: 02/17/05 16:14 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01406	02/22/05	02/22/05	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas) 87.0 % 65-135 " " " "									
MW-6 (COB0659-05) Water Sampled: 02/17/05 14:54 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01406	02/22/05	02/22/05	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas) 96.5 % 65-135 " " " "									
MW-7 (COB0659-06) Water Sampled: 02/17/05 14:34 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01406	02/22/05	02/22/05	EPA 8015M	
Surrogate: o-Chlorotoluene (Gas) 104 % 65-135 " " " "									
MW-8 (COB0659-07) Water Sampled: 02/18/05 08:20 Received: 02/18/05 16:35									
Gasoline	7000	500	µg/L	10	CO01406	02/22/05	02/22/05	EPA 8015M	GC-25
Surrogate: o-Chlorotoluene (Gas) 88.0 % 65-135 " " " "									

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

ENSR - Alameda.
1420 Harbor Bay Parkway , Suite 120
Alameda, CA 94502

Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
Project Number: 06940-268-100
CLS Work Order #: COB0659
Project Manager: Dave Peacock
COC #:

TPH-Gasoline by GC FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (COB0659-08) Water Sampled: 02/17/05 09:45 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01406	02/22/05	02/22/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		94.5 %	65-135		"	"	"	"	
MW-10 (COB0659-09) Water Sampled: 02/17/05 10:08 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01406	02/22/05	02/22/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		94.0 %	65-135		"	"	"	"	
MW-11 (COB0659-10) Water Sampled: 02/17/05 15:16 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01406	02/22/05	02/22/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		93.5 %	65-135		"	"	"	"	
MW-12A (COB0659-11) Water Sampled: 02/17/05 10:53 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01406	02/22/05	02/22/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		93.0 %	65-135		"	"	"	"	
MW-12B (COB0659-12) Water Sampled: 02/17/05 11:24 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01430	02/23/05	02/23/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		95.5 %	65-135		"	"	"	"	
MW-13A (COB0659-13) Water Sampled: 02/17/05 12:14 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01430	02/23/05	02/23/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		94.0 %	65-135		"	"	"	"	
MW-13B (COB0659-14) Water Sampled: 02/17/05 12:46 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01430	02/23/05	02/23/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		95.0 %	65-135		"	"	"	"	

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

ENSR - Alameda.
1420 Harbor Bay Parkway , Suite 120
Alameda, CA 94502

Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
CLS Work Order #: COB0659
Project Number: 06940-268-100
Project Manager: Dave Peacock
COC #:

TPH-Gasoline by GC FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-14A (COB0659-15) Water Sampled: 02/17/05 13:41 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01430	02/23/05	02/23/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		95.0 %	65-135		"	"	"	"	
MW-14B (COB0659-16) Water Sampled: 02/17/05 14:05 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01430	02/23/05	02/23/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		86.5 %	65-135		"	"	"	"	
MW-15 (COB0659-17) Water Sampled: 02/17/05 13:11 Received: 02/18/05 16:35									
Gasoline	ND	50	µg/L	1	CO01430	02/23/05	02/23/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		95.0 %	65-135		"	"	"	"	
QA (COB0659-18) Water Sampled: 01/25/05 12:00 Received: 02/18/05 16:35 HT-1									
Gasoline	ND	50	µg/L	1	CO01430	02/23/05	02/23/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		93.0 %	65-135		"	"	"	"	

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02/25/05 14:37

ENSR - Alameda.
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Alameda, CA 94502

Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
CLS Work Order #: COB0659
Project Number: 06940-268-100
COC #:
Project Manager: Dave Peacock

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (COB0659-01) Water Sampled: 02/17/05 17:36 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01350	02/21/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	1.4	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	14	0.50	"	"	"	"	"	"	
Toluene	1.1	0.50	"	"	"	"	"	"	
Ethylbenzene	8.6	0.50	"	"	"	"	"	"	
Xylenes (total)	1.9	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		99.6 %		72-125		"	"	"	
MW-2 (COB0659-02) Water Sampled: 02/18/05 08:38 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	25	µg/L	50	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	25	"	"	"	"	02/23/05	"	
Methyl tert-butyl ether	100	25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	25	"	"	"	"	"	"	
Tert-butyl alcohol	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Benzene	1800	25	"	"	"	"	"	"	
Toluene	900	25	"	"	"	"	"	"	
Ethylbenzene	910	25	"	"	"	"	"	"	
Xylenes (total)	5500	50	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		98.0 %		72-125		"	"	"	

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Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
Project Number: 06940-268-100
CLS Work Order #: COB0659
Project Manager: Dave Peacock
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (COB0659-03) Water Sampled: 02/17/05 17:20 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	7.3	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	4.1	0.50	"	"	"	"	"	"	
Toluene	2.1	0.50	"	"	"	"	"	"	
Ethylbenzene	42	0.50	"	"	"	"	"	"	
Xylenes (total)	37	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
MW-5 (COB0659-04) Water Sampled: 02/17/05 16:14 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01350	02/21/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	0.56	0.50	"	"	"	"	"	"	
Xylenes (total)	2.2	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									

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Project Number: 06940-268-100
CLS Work Order #: COB0659
Project Manager: Dave Peacock
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (COB0659-05) Water Sampled: 02/17/05 14:54 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01350	02/21/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	1.0	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		99.8 %		72-125		"	"	"	
MW-7 (COB0659-06) Water Sampled: 02/17/05 14:34 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01350	02/21/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		102 %		72-125		"	"	"	

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Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
CLS Work Order #: COB0659
Project Number: 06940-268-100
COC #:
Project Manager: Dave Peacock

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (COB0659-07) Water Sampled: 02/18/05 08:20 Received: 02/18/05 16:35									
Di-isopropyl ether	24	5.0	µg/L	10	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Benzene	410	5.0	"	"	"	"	"	"	
Toluene	230	5.0	"	"	"	"	"	"	
Ethylbenzene	220	5.0	"	"	"	"	"	"	
Xylenes (total)	520	10	"	"	"	"	"	"	

Surrogate: Toluene-d8

102 % 72-125 " " " "

MW-9 (COB0659-08) Water Sampled: 02/17/05 09:45 Received: 02/18/05 16:35

Di-isopropyl ether	ND	0.50	µg/L	1	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Surrogate: Toluene-d8

100 % 72-125 " " " "

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1420 Harbor Bay Parkway , Suite 120
Alameda, CA 94502

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CLS Work Order #: COB0659
Project Number: 06940-268-100
COC #:
Project Manager: Dave Peacock

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (COB0659-09) Water Sampled: 02/17/05 10:08 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		97.2 %		72-125		"	"	"	
MW-11 (COB0659-10) Water Sampled: 02/17/05 15:16 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		104 %		72-125		"	"	"	

CALIFORNIA LABORATORY SERVICES

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CLS Work Order #: COB0659
Project Number: 06940-268-100
COC #:
Project Manager: Dave Peacock

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12A (COB0659-11) Water Sampled: 02/17/05 10:53 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	21	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		96.9 %		72-125		"	"	"	
MW-12B (COB0659-12) Water Sampled: 02/17/05 11:24 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		98.9 %		72-125		"	"	"	

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

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CLS Work Order #: COB0659
Project Number: 06940-268-100
COC #:
Project Manager: Dave Peacock

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-13A (COB0659-13) Water Sampled: 02/17/05 12:14 Received: 02/18/05 16:35									
Di-isopropyl ether	0.64	0.50	µg/L	1	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	"
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	0.54	0.50	"	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	1.0	"	"	"	"	"	"	"

Surrogate: Toluene-d8

102 % 72-125 " " "

MW-13B (COB0659-14) Water Sampled: 02/17/05 12:46 Received: 02/18/05 16:35

Di-isopropyl ether	ND	0.50	µg/L	1	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	"
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	1.0	"	"	"	"	"	"	"

Surrogate: Toluene-d8

102 % 72-125 " " "

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

ENSR - Alameda.
1420 Harbor Bay Parkway , Suite 120
Alameda, CA 94502

Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
Project Number: 06940-268-100
Project Manager: Dave Peacock
CLS Work Order #: COB0659
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-14A (COB0659-15) Water Sampled: 02/17/05 13:41 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	32	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	14	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		97.3 %		72-125		"	"	"	
MW-14B (COB0659-16) Water Sampled: 02/17/05 14:05 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01397	02/22/05	02/22/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		104 %		72-125		"	"	"	

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

ENSR - Alameda.
1420 Harbor Bay Parkway , Suite 120
Alameda, CA 94502

Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
CLS Work Order #: COB0659
Project Number: 06940-268-100
COC #:
Project Manager: Dave Peacock

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-15 (COB0659-17) Water Sampled: 02/17/05 13:11 Received: 02/18/05 16:35									
Di-isopropyl ether	ND	0.50	µg/L	1	CO01349	02/21/05	02/21/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		102 %		72-125		"	"	"	
QA (COB0659-18) Water Sampled: 01/25/05 12:00 Received: 02/18/05 16:35									
									HT-1
Benzene	ND	0.50	µg/L	1	CO01349	02/21/05	02/21/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>									
		162 %		66-135		"	"	"	S-HI
<i>Surrogate: Toluene-d8</i>									
		101 %		72-125		"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>									
		108 %		73-125		"	"	"	

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

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Project Number: 06940-268-100
Project Manager: Dave Peacock
CLS Work Order #: COB0659
COC #:

TPH-Gasoline by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO01406 - EPA 5030 Water GC

Blank (CO01406-BLK1)	Prepared & Analyzed: 02/22/05							
Gasoline	ND	50	µg/L					
Surrogate: o-Chlorotoluene (Gas)	19.2	"		20.0	96.0	65-135		
LCS (CO01406-BS1)	Prepared & Analyzed: 02/22/05							
Gasoline	555	50	µg/L	500	111	65-135		
Surrogate: o-Chlorotoluene (Gas)	20.9	"		20.0	104	65-135		
LCS Dup (CO01406-BSD1)	Prepared & Analyzed: 02/22/05							
Gasoline	542	50	µg/L	500	108	65-135	2.37	30
Surrogate: o-Chlorotoluene (Gas)	21.1	"		20.0	106	65-135		
Matrix Spike (CO01406-MS1)	Source: COB0534-02		Prepared & Analyzed: 02/22/05					
Gasoline	515	50	µg/L	500	ND	103	68-132	
Surrogate: o-Chlorotoluene (Gas)	21.1	"		20.0	106	65-135		
Matrix Spike Dup (CO01406-MSD1)	Source: COB0534-02		Prepared & Analyzed: 02/22/05					
Gasoline	477	50	µg/L	500	ND	95.4	68-132	7.66
Surrogate: o-Chlorotoluene (Gas)	20.2	"		20.0	101	65-135		32

Batch CO01430 - EPA 5030 Water GC

Blank (CO01430-BLK1)	Prepared & Analyzed: 02/23/05						
Gasoline	ND	50	µg/L				
Surrogate: o-Chlorotoluene (Gas)	19.5	"		20.0	97.5	65-135	
LCS (CO01430-BS1)	Prepared & Analyzed: 02/23/05						
Gasoline	492	50	µg/L	500	98.4	65-135	
Surrogate: o-Chlorotoluene (Gas)	20.9	"		20.0	104	65-135	

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

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1420 Harbor Bay Parkway , Suite 120
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Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
CLS Work Order #: COB0659
Project Number: 06940-268-100
Project Manager: Dave Peacock
COC #:

TPH-Gasoline by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch CO01430 - EPA 5030 Water GC

LCS Dup (CO01430-BSD1)

Prepared & Analyzed: 02/23/05

Gasoline	516	50	µg/L	500	103	65-135	4.76	30
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Surrogate: o-Chlorotoluene (Gas)

Surrogate: o-Chlorotoluene (Gas)	20.9	"		20.0	104	65-135
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Matrix Spike (CO01430-MS1)

Source: COB0661-02 Prepared & Analyzed: 02/23/05

Gasoline	815	50	µg/L	500	290	105	68-132
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Surrogate: o-Chlorotoluene (Gas)

Surrogate: o-Chlorotoluene (Gas)	42.5	"		20.0	212	65-135
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S-04

Matrix Spike Dup (CO01430-MSD1)

Source: COB0661-02 Prepared & Analyzed: 02/23/05

Gasoline	785	50	µg/L	500	290	99.0	68-132	3.75	32
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Surrogate: o-Chlorotoluene (Gas)

Surrogate: o-Chlorotoluene (Gas)	27.3	"		20.0	136	65-135
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S-04

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

ENSR - Alameda.
1420 Harbor Bay Parkway , Suite 120
Alameda, CA 94502

Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
CLS Work Order #: COB0659
Project Number: 06940-268-100
COC #:
Project Manager: Dave Peacock

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch CO01349 - EPA 5030 Water MS

Blank (CO01349-BLK1)		Prepared & Analyzed: 02/21/05							
Di-isopropyl ether	ND	0.50	µg/L						
Benzene	ND	0.50	"						
Toluene	ND	0.50	"						
Ethyl tert-butyl ether	ND	0.50	"						
Methyl tert-butyl ether	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
Xylenes (total)	ND	1.0	"						
tert-Amyl methyl ether	ND	0.50	"						
Tert-butyl alcohol	ND	5.0	"						
1,2-Dibromoethane (EDB)	ND	0.50	"						
1,2-Dichloroethane	ND	0.50	"						
<i>Surrogate: Toluene-d8</i>	10.1		"	10.0	101	72-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.8		"	10.0	138	66-135			S-HI
<i>Surrogate: Toluene-d8</i>	10.1		"	10.0	101	72-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	10.9		"	10.0	109	73-125			

LCS (CO01349-BS1)		Prepared & Analyzed: 02/21/05					
Benzene	18.6	0.50	µg/L	20.0	93.0	0-200	
Toluene	20.8	0.50	"	20.0	104	0-200	
Methyl tert-butyl ether	22.0	0.50	"	20.0	110	52-130	
<i>Surrogate: Toluene-d8</i>	11.1		"	10.0	111	72-125	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.2		"	10.0	132	66-135	
<i>Surrogate: Toluene-d8</i>	11.1		"	10.0	111	72-125	
<i>Surrogate: 4-Bromofluorobenzene</i>	9.91		"	10.0	99.1	73-125	

LCS Dup (CO01349-BSD1)		Prepared & Analyzed: 02/21/05					
Benzene	18.3	0.50	µg/L	20.0	91.5	0-200	1.63
Toluene	20.2	0.50	"	20.0	101	0-200	2.93
Methyl tert-butyl ether	21.6	0.50	"	20.0	108	52-130	1.83
<i>Surrogate: Toluene-d8</i>	10.9		"	10.0	109	72-125	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.0		"	10.0	130	66-135	

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

ENSR - Alameda.
1420 Harbor Bay Parkway , Suite 120
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Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
CLS Work Order #: COB0659
Project Number: 06940-268-100
Project Manager: Dave Peacock
COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch CO01349 - EPA 5030 Water MS

LCS Dup (CO01349-BSD1)

Surrogate: Toluene-d8	10.9	μg/L	10.0	109	72-125
Surrogate: 4-Bromofluorobenzene	9.67	"	10.0	96.7	73-125

Batch CO01350 - EPA 5030 Water MS

Blank (CO01350-BLK1)

Di-isopropyl ether	ND	0.50	μg/L			
Ethyl tert-butyl ether	ND	0.50	"			
Methyl tert-butyl ether	ND	0.50	"			
tert-Amyl methyl ether	ND	0.50	"			
Tert-butyl alcohol	ND	5.0	"			
Surrogate: Toluene-d8	10.4	"	10.0	104	72-125	

LCS (CO01350-BS1)

Methyl tert-butyl ether	16.3	0.50	μg/L	20.0	81.5	52-130		
Surrogate: Toluene-d8	10.6	"		10.0	106	72-125		

LCS Dup (CO01350-BSD1)

Methyl tert-butyl ether	15.7	0.50	μg/L	20.0	78.5	52-130	3.75	30
Surrogate: Toluene-d8	10.8	"		10.0	108	72-125		

Batch CO01397 - EPA 5030 Water MS

Blank (CO01397-BLK1)

Di-isopropyl ether	ND	0.50	μg/L					
Ethyl tert-butyl ether	ND	0.50	"					
Methyl tert-butyl ether	ND	0.50	"					
tert-Amyl methyl ether	ND	0.50	"					
Tert-butyl alcohol	ND	5.0	"					
1,2-Dichloroethane	ND	0.50	"					
Benzene	ND	0.50	"					
Toluene	ND	0.50	"					

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

ENSR - Alameda.
1420 Harbor Bay Parkway , Suite 120
Alameda, CA 94502

Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
CLS Work Order #: COB0659
Project Number: 06940-268-100
COC #:
Project Manager: Dave Peacock

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch CO01397 - EPA 5030 Water MS

Blank (CO01397-BLK1) Prepared & Analyzed: 02/22/05

Ethylbenzene	ND	0.50	µg/L							
Xylenes (total)	ND	1.0	"							

Surrogate: Toluene-d8 10.2 " 10.0 102 72-125

LCS (CO01397-BS1) Prepared & Analyzed: 02/22/05

Methyl tert-butyl ether	21.2	0.50	µg/L	20.0	106	52-130				
Surrogate: Toluene-d8	10.8	"		10.0	108	72-125				

LCS Dup (CO01397-BSD1) Prepared & Analyzed: 02/22/05

Methyl tert-butyl ether	21.1	0.50	µg/L	20.0	106	52-130	0.473	30		
Surrogate: Toluene-d8	10.6	"		10.0	106	72-125				

CALIFORNIA LABORATORY SERVICES

02/25/05 14:37

ENSR - Alameda.
1420 Harbor Bay Parkway , Suite 120
Alameda, CA 94502

Project: FormerUnocal2672,1075SantaRosaAve, SantaRosa,CA
CLS Work Order #: **COB0659**
Project Number: 06940-268-100
Project Manager: Dave Peacock

Notes and Definitions

- S-HI Surrogate recovery was greater than the upper control limit. A reanalysis was not performed since the analytes associated with the surrogate were not detected.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- HT-1 The sample was received outside of the EPA recommended holding time.
- GC-25 Weathered gasoline.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference